Research Product 85-10

MOS Baseline Skills Data Base

Instructional Technology Systems Technical Area
Training Research Laboratory

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U. S. Army Research Institute for the Behavioral and Social Sciences

U. S. ARMY RESEARCH INSTITUTE
FOR THE BEHAVIORAL AND SOCIAL SCIENCES

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    The critical tasks in the 94 highest-density MOSs were analyzed to determine the basic skills that are considered necessary to successfully perform them. The results of this analysis are described in a large computerized data base which is installed at the National Institutes of Health's computer facility. The data base is described in this research product, as well as the procedures required to access the data.

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MOS Baseline Skills Data Base

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The Instructional Systems Technical Area of the Army Research Institute for the Behavioral and Social Sciences (ARI) performs research and development in the areas of curriculum development, computer-based instructional systems, and learning strategies. A significant part of this effort is the development of a revised curriculum for the Army's Basic Skills Education Program (BSEP). The BSEP programs are designed to provide entering soldiers with the basic skills they need to perform Army jobs which are becoming technologically more sophisticated.

Recently, the critical tasks in 94 of the highest density Army jobs and the common soldier tasks (CST) were analyzed to provide information on the basic skills required for their completion. The data collected from this study comprise a large data base, and are stored at the National Institutes of Health's computer facility. This handbook is designed to provide researchers, educators, and Army training personnel with a comprehensive overview of the data base and directions on its use.

EDGAR M. JOHNSON
Technical Director

MOS BASELINE SKILL DATA BASE HANDBOOK

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MOS Baseline Skills Data Base Handbook

INTRODUCTION TO THE MOS BASELINE SKILLS DATA BASE

Revision of the Basic Skills Education Program

Since its inception, the Basic Skills Education Program (BSEP) has played a fundamental role in the Army's effort to provide entering soldiers with the education necessary to pursue a career in the military. BSEP was designed to provide recruits deficient in basic reading, writing, listening, and computational skills with remedial training in these areas. The BSEP-trained skills are important across different functional areas and job dimensions, and are considered necessary for an individual to become proficient in the Soldier's Manual Tasks for each MOS. BSEP I provides training in the basic skills a soldier needs to enter and progress through IET. BSEP II is designed to do the same for skills associated with tasks trained in the unit and/or the 20-level Soldier's Manual Tasks.

As part of a general effort to increase the effectiveness of the educational programs offered by the Army Continuing Education System (ACES), the Army decided to revise BSEP in 1979. Prior to this time, BSEP was actually a collection of individual educational programs based on traditional subject matter content and educational grade levels. One goal of the revision was to standardize the basic skills programs to eliminate duplication of developmental efforts and improve training usefulness. Another goal of the revision was to change the orientation of basic skills training from a traditional education-level approach to a functional approach. In the functional approach, basic skills are defined as task-oriented skills and abilities that are required to learn and perform actual job tasks. Training is designed to increase proficiency in performing specific job-context basic skills, in contrast to the traditional approach which emphasizes general language and mathematical knowledge. Functional basic skills are sometimes referred to as prerequisite competencies, and can be distinguished from basic skills in two major ways: (a) they are more narrowly defined than traditional basic skills; and (b) they are stated in terms of specific, observable behaviors an individual must perform to complete a defined objective. Examples of prerequisite competencies include dividing a four-digit number by a two-digit number, and summarizing information from several sources.

A contract was awarded to the RCA Service Company to analyze the critical tasks in skill levels 10 and 20 and the common soldier tasks (CST), based on the most recent

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Soldier's Manual or list of job tasks provided by the
service schools. The goal of this analysis was to
identify the prerequisite competencies required to
perform the tasks for the 94 highest-density MOSs. Based
on similarities in the competencies across jobs, basic
skills training programs were to be organized into
clusters of MOSs.

The Extended Task Analysis Procedure (ETAP)

The extended task analysis procedure conducted by
the RCA Service Company had two goals: (a) Based on
available documentation and interviews with training
personnel, to provide the Army with a hierarchical list
of job steps for the 94 highest-density MOSs; and (b) to
identify and define the knowledge required to
successfully complete the tasks. The extended tasks
analysis procedure included five steps:

1. RCA analysts identified job tasks from Soldier's
Manuals and task lists provided by the proponent schools.
To avoid duplication of effort, tasks described in two or
more MOSs were analyzed in the parent MOS and referenced
to the original when the task appeared elsewhere
Similarly, subtasks, a complete group of job steps that
appear in two or more tasks, were analyzed once and
usually listed by number when they appeared in other
tasks.

2. With the assistance of a subject matter
expert(SME) designated by the proponent school, the
analyst identified: (a) the specific job or performance
steps required to successfully perform each task in the
field; (b) the equipment and documentation needed to
complete each task; (c) the knowledge and prerequisite
skills necessary to perform each task; and (d) the
standards to which the completed task should conform.
Analysts noted whether or not the tasks were performed
according to published standards and recorded all
discrepancies between actual field performance and
doctrinal procedure. The result is a hierarchical
listing of job steps, available job aids, and the
prerequisite skills required to successfully complete
them.

3. The initial analysis was verified by a second
SME from the proponent school where the MOS training took
place. If discrepancies were found between the two
reviews they were examined and resolved.

4. The service schools or training centers reviewed
the results of the analysis to insure completeness. In
addition, an instructor from each proponent school
identified the skills not taught in advanced individual

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training (AIT). If any of the steps required one of
these skills or they were designated as technical
prerequisites. Initially, all untaught skills were to be
subject to remedial education. Technical prerequisites
were later placed in a separate category because the
skill was considered specific to the MOS in which it was
identified. The remaining prerequisites were included in
the taxonomy.

5. All of the primary ETAP data were reviewed, and
a complete list of basic skills was finalized. This list
of prerequisite competencies includes 220 specific
competencies in 46 skill areas. Each competency has a
three-character prerequisite competency (pc) code that is
used in the system reports to index the job steps to the
prerequisite skills. A complete taxonomy appears in the
appendix (Table 1).

Organization of the Data Base

The RCA-MOS data base consists of over 3.2 million
records of information in almost 1700 separate data
files. In spite of its formidable size, nearly 90% of
the data are of only two types: (a) data that are
primarily concerned with task and subtask analysis, and
(b) data that are concerned with the prerequisite
competencies required to perform job steps. A large
proportion of the data appears in more than one format.
For example, prerequisite competency statements, the
performance or job steps to which a prerequisite
competency applies, are organized by MOS and by pc code.
Similarly, tasks appear by MOS, by task number, and in
one large reference file that includes every task
analyzed in the project, as well as the MOSs in which
they appear. The selection of a particular report will
depend upon how the user wants the data to be organized.
The supporting documentation describes the reports,
relevant variables that they contain, and information on
the location of other data files. Most of the relevant
documentation appears in this manual, and is consistent
with NIH's IBM operating system.

The RCA-MOS information system generates 20 separate
reports that are described in detail in this handbook.
Ten of these reports describe job tasks and provide other
information from the hierarchical task analysis.
Briefly, they are:

1. Task Performance Analysis Report - 1 (TPA-1):
The TPA-1 report presents a summary of the extended task
analysis results, and includes a brief description of
each task, the major steps included in the task, and the
equipment required for its execution. In addition, it
indicates which motor skills were included in the task

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analysis and locator information for additional ETAP
findings. Entries from any section of the TPA-1 report
have may exceed the space provided on the form. In this
case, the entry is continued in the Comments Attached
report (see below). The heading of the "comments"
section will also indicate "ERRATA" or "NO ERRATA." If
"ERRATA" is stated, entries will appear on the TPA-1
report and in a separate Errata report.

   2.   Comments Attached Report: These are
observations about the tasks and the procedural steps by
SMEs or analysts that were made and recorded during the
interviews, and considered important to the ETAP
procedure. They appear in the "comments" sections of the
TPA-1 report and separately in this document.

   3.   Discrepancies Report: Comments that indicate a
difference between task procedures as they appear in the
doctrinal materials and as they are performed in the
field were identified as "discrepancies" on the TPA-1
report. They are identified with an asterisk (*) in the
"comments" section of the TPA-1 report.

   4.   Errata Report: These reports contain
corrections, additions, or deletions that were made to
the ETAP findings as a result of a separate review
process.

   5.   Task Performance Analysis Report, New Format- 2
(TPA-2) : The TPA-2 reports present a hierarchical
listing of the individual job steps for each analyzed
task. New format TPA-2 reports also indicate the
prerequisite competency that corresponds to the job step
statement. Old format TPA-2s do not contain this
information and require separate JCL and FORTRAN programs
to be printed (see below).

   6.   Task Performance Analysis Report, Old Format - 2
(TPA-2):   Twenty-four of the TPA-2 reports appear in an
"old format." These reports do not index separate job
steps with pc codes, and are generated with programs
different from those of the "new format" TPA-2 reports In
all other respects, they are identical to the "new
format" TPA-2 reports.

   7., 8.   Task Performance Analysis Report - 3
(TPA-3):   These reports were used briefly during the
beginning of the project. They contain specific job
steps indexed by general skill areas rather than specific
prerequisite skills.

   9.   Complete Task Report: This is a complete list
of every critical task analyzed in the 94 MOSs and in the

CST. It indicates the MOS in which the task was analyzed and the other MOSs in which it appears.

10. Task Statement Report, by MOS: Is a listing of all tasks by the MOS in which they were originally analyzed.

11. Complete Subtask List: Lists all subtasks that appear in the critical tasks. They are referenced to the MOS and task in which it was originally analyzed and to the other tasks in which it appears.

12. Subtask List, by MOS: This report lists all the subtasks appearing in a particular MOS. It also indicates in which MOS it was analyzed, and other MOSs in which it is included.

The remaining 10 reports are concern with the prerequisite baseline skills and the specific job steps within tasks to which they apply. These reports list job steps from the original reports along with the prerequisite competency codes. Many of the prerequisite competency reports discriminate between BSEP I and BSEP II skills. This distinction was based on an assumption that the prerequisite competencies needed to complete the skill level 10 tasks would be different than the prerequisite competencies required for the skill level 20 tasks. Although later analysis demonstrated that the prerequisite skills did not differ and that the prerequisite competencies could be collapsed over all 10- and 20-level tasks, the prerequisite competency statement reports were reproduced in their original form. These reports include:

13. Complete Prerequisite Competency Indicator Statements, New Format: This is a report of the prerequisite competency statements extracted from the TPA-2 reports. The prerequisite competency statements are the job steps within a task that require a prerequisite skill to be successfully performed. The report is organized by prerequisite competency code, and is a comprehensive listing of the job steps across all MOSs to which a particular competency applies. It is referenced to the job step number and the original MOS in which it is located.

14. Prerequisite Competency Indicator Statements, by MOS: The P C Indicator Statement report lists prerequisite competency indicator statements with their pc codes, by MOS. It contains the same information as as the preceding report in different format.

15., 16. Complete Prerequisite Competency Indicator Statements, Old Format and Prerequisite Competency

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Indicator Statements, by MOS: These are the same reports
as the above, but for the 24 "old format" MOSs. In
contrast to the new format MOSs, these statements were
extracted from the KA reports and not the TPA-2s.

17. Knowledge Analysis Report: These reports were
the product of home office analysis, and contain
statements from the old format TPA-2s to which a
prerequisite competency applies. They are in the same
format as the TPA-2s.

18. Technical Prerequisites Report: Certain skills
not taught as part of AIT were considered "technical
prerequisites." The Technical Prerequisites report lists
the job steps that require these skills.

19. Task Performance Analysis Report - X (TPA-X):
These reports were generated in an effort to determine
common or transferable skills between tasks, and are
available for only three MOSs.

20. Knowledge Statement Report: The Knowledge
Statement report is a compilation of performance
statements from the KA reports indicating a necessary
prerequisite skill.

In addition to these system generated-reports and
the data files from which they are drawn, there are
approximately 338 data files containing JCL and FORTRAN
programs, as well as documentation for the original
RCA-MOS data base. The programs were modified to make
them compatible with the National Institutes of Health's
IBM operating system, and the documentation has been
changed accordingly. These data files are located on
tape number 053712, and are listed on pages 97-105 in the
tape index.

Printing an ETAP Report

The MOS Baseline Skills Data Base is currently
installed at the NIH facility. Due to its size, the
majority of the information is stored on magnetic tape.
Programs that are required to access and print the
reports are stored on disk in a general form. With minor
changes to the programs, any user will be able to obtain
any ETAP report.

The process to compile and print an ETAP report
requires a JCL program, a FORTRAN program, and an input
data file. The JCL program controls the processing steps
in the report-generating procedure. It calls a FORTRAN
program that prints report headings and page numbers, and
the input data itself. All three files, the two program
files and the input file, must be stored on disk volume

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FILE47 before the job can be run. Since the programs are stored there permanently, however, only the input data file has to be transferred from tape.

Printing an ETAP report is a two-part procedure:

1. The data file has to be transferred from a tape to a disk file. The program needed to perform this task is called WTGFKJZ.SYS.DSGET, and is located on FILE47. Although the program is written in a general form, a few minor changes will enable it to retrieve any data file stored on the tapes. The procedure is to bring the WTGFKJZ.SYS.DSGET program into the user's workspace (these are called ACTIVE FILES in WYLBUR, the NIH's interactive language) to make the changes, and then to run the job. The alterations include changing the user's name, account and box number in the job card, inserting the appropriate tape number and data file name, and inserting the sequence number or position of the data file on the tape. The appendix contains an index of the data tapes(see Table 3). It provides the names of the data files, their sequence numbers, and the tape numbers on which they are located.

2. After this job is completed, the appropriate JCL program must be modified and the job can be run. A list of the JCL programs, their functions, and input parameters appears in Table 2. Like the DSGET program, they are stored on FILE47. The only changes to the JCL programs include inserting the correct data set name and changing the job card. These changes will be presented in detail in this section. After the job has run, reports can be printed at the NIH facility, one of the remote printers, or on a slave unit.

The procedure to print a TPA-1 report differs from the other report-generating procedures only in the name of the data files, tape and sequence numbers, and the JCL program used. Therefore, the steps in the process to print a TPA-1 report will be described here in detail. The relevant changes required to print the other reports will follow immediately. MOS 11B is used for purposes of illustration. Since all of the TPA-1 reports are located on the same tape, only the name of the data set and its sequence number will be different from other MOSs. The TPA-1 reports are stored in print format on tape number 029043. In the following example, a "?" is the WYLBUR system response indicating it is ready for a user command. "Data set" refers to the data or program file under discussion (see Table 1).

Printing a TPA-1 Report

STEP 1. Before modifying and using the

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WTGFKJZ.SYS.DSGET program, it is useful to determine if
the desired data set is already stored on FILE47. The
"show" command is used for this purpose:

A.   ? show dsnames like WTGFKJZ.11B.PG1   This command
      on FILE47   asks WYLBUR if the
                                                 desired data set
                                                 is stored on FILE47.

      FILE47   System response
      WTGFKJZ.11B.PG1   indicating that the
                                                 data set exists.
                                                 Go to step 5.A.

      FILE47   System response
      NO DATA SETS FOUND   indicates that data
                                                 set is not on tape.
                                                 Proceed as follows:

      STEP 2.   The WTGFKJZ.SYS.DSGET program has to be
brought from FILE47 where it is stored into a user's
active file. The program is written in a general form,
and can be used with appropriate modifications to
retrieve 10 data sets from the same tape. A "//LIST" and
a "//SEQ" statement are required for each data set.
Unused statements should be deleted before the job is
run. It is only when the program is in the active file
that the appropriate changes can be made. There are five
changes that need to be made to the program: (a) the job
card has to be modified; (b) the proper tape number has
to be inserted in the program; (c) the correct name of
the data set has to be inserted; (e) the data set's
position on the tape or sequence number must be inserted;
and (d) the unused statements should be deleted. The
following commands continue the sequence started above:

A. ? use fr WTGFKJZ.SYS.DSGET on file47   Brings sys.dsget
                                             program into active
                                             file for modification.

B. ? list   Command to list the
                                             program on screen.

C. ? ch "ACCT" to "WTGR" in 1; ch   Inserts the fictional user's
   "USERNAME" to "SMITH" in 1   name and account in
                                             job card.

D. ? ch "nnnnnn" to "029043" in all   Inserts tape volume
                                             number into program.

   //LIST1 EXEC DSGET,NAME='datasetname',   WYLBUR will list the
   TAPE=029043,   altered line.

E. ? ch "datasetname" to "WTGFKJZ.11B.PG1"   Inserts the correct

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```
        in "LIST"                              data set name into
                                               the program.

   //LIST1 EXEC DSGET,NAME='WTGFKJZ.MOS.PG1',    WYLBUR response
   TAPE=029043,                                  showing altered line.
```

F. ? ch "nn" to "10" in "SEQ"
> The parameter nn must be changed to correspond to the sequence number of the data set on the tape. The number used is for the single MOS 11B data set.

```
   // SEQ=10,DEN=4,DISK=FILE47
```
> WYLBUR response showing altered line.

G. ? d 10/L
> Command to delete unused program steps.

STEP 3. The job of retrieving the required data sets from tape is now ready to be run. Because this it is a class B job requirings two tape drives to execute, it may take an hour or two to complete. When it does finish, be sure to confirm the presence of the desired data set on FILE47.

A. ? run hold notify
> Command to run job transferring data set. WYLBUR will hold report in an output file.

B. ? fetch (job number) act 1
> Brings output into user's active file 1. Determine if DSGET program has executed properly. Condition code should be 0000.

C. ? show dsnames like WTGFKJZ.11B.PG1
> Command to verify that data set is on FILE47.

STEP 5. At this point, the JCL program can be brought into the user's active file and the report can be generated. The only changes to be done are (a) change the job card, and (b) insert the correct MOS into the program.

A. ? use fr WTGFKJZ.PRTPG1X on FILE47
> Brings JCL program

	into active file for modification.
B. ? ch "XXX" to "11B" in all	Inserts desired MOS into program.
C. ? run hold notify	Command to run job creating the report. WYLBUR will hold report in output file. Use "fetch" command.
D. ? fetch (job number) act 1	Brings output into user's active file 1. Determine if report program has executed properly.
E. ? print (job number)	Prints report off central NIH printer if job has run properly. If job did not execute, find error and rerun.

The preceding example illustrates the procedure to access any data set and generate any report in the data base. Differences in other procedures include the details of the SYS.DSGET program, and the JCL program to be used. Table 2 in the appendix lists the approprite programs and input files needed for each report.

Comments Attached Report

The differences between the procedure to print a TPA-1 report and a Comments Attached Report for MOS 11B appear in steps 1.A., 2.E., 2.F., 4.C., and 5.A. These changes are as follows:

1.A. ? show dsnames like WTGFKJZ.11B.COMMENTS on FILE47

2.E. ? ch "datasetname" to "WTGFKJZ.11B.COMMENTS" in "LIST"

2.F. ? ch "nn" to "100" in "SEQ"

4.C. ? show dsnames like WTGFKJZ.11B.COMMENTS on FILE47

5.A. ? use fr WTGFKJZ.PRTCOMMX on FILE47

Discrepancies Report

Steps 1.A., 2.D., 2.E., 2.F., 4.C., and 5.A. in the TPA-1 procedure for MOS 11B should be changed as follows:

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1.A. ? show dsnames like WTGFKJZ.11B.DISCREP on FILE47

2.D. ? ch "nnnnnn" to "059398" in all

2.E. ? ch "datasetname" to "WTGFKJZ.11B.DISCREP" in "LIST"

2.F ? ch "nn" to "154" in "SEQ"

4.C. ? show dsnames like WTGFKJZ.11B.DISCREP on FILE47

5.A. ? use fr WTGFKJZ.PRTDISCX on FILE47

TPA-2 Report

  Steps 1.A., 2.D., 2.E., 2.F., 4.C., and 5.A. in the
TPA-1 procedure for MOS 11B should be changed as follows:

1.A. ? show dsnames like WTGFKJZ.11B.PG2 on FILE47

2.D. ? ch "nnnnnn" to "029435" in all

2.E. ? ch "datasetname" to "WTGFKJZ.11B.PG2" in "LIST"

2.F. ? ch "nn" to "5" in "SEQ"

4.C. ? show dsnames like WTGFKJZ.11B.PG2 on FILE47

5.A. ? use fr WTGFKJZ.PRTPRT2NEWX on FILE47

  ? use fr WTGFKJZ.PG2OLDX on FILE47 Command to be
used when an old
format report is
printed

K A Report

  The differences between the procedures to print a K
A report and a TPA-1 report for MOS 43M appear in steps
1.A., 2.D., 2.E., 2.F., 4.C., 5.A.and 5.B. These changes
are as follows:

1.A. ? show dsnames like WTGFKJZ.43M.KA on FILE47

2.D. ? ch "nnnnnn" to "029746" in all

2.E. ? ch "datasetname" to "WTGFKJZ.43M.KA" in "LIST"

2.F. ? ch "nn" to "38" in "SEQ"

4.C. ? show dsnames like WTGFKJZ.43M.KA on FILE47

5.A. ? use fr WTGFKJZ.PRTKAX on FILE47

5.B.   ? ch "XXX" to "43M" in all

P C Indicator Statement Report

In the TPA-1 report, steps 1.A., 2.D., 2.E., 2.F., 4.C., and 5.A. in the procedure should be changed as follows:

1.A.   ? show dsnames like WTGFKJZ.11B.NEW1S on FILE47

2.D.   ? ch "nnnnnn" to "048628" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.11B.NEW1S" in "LIST"

2.F.   ? ch "nn" to "55" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.11B.NEW1S on FILE47

5.A.   ? use fr WTGFKJZ.PRTPCNX on FILE47

P C Indicator Statement Report, by MOS

The procedure to print a P C Indicator Statement report is very similar to that of the TPA-1 report. The differences between these two procedures appear in steps 1.A., 2.D., 2.E., 2.F., 4.C., and 5.A. These changes are as follows:

1.A.   ? show dsnames like WTGFKJZ.11B.PCINDN1 on FILE47

2.E.   ? ch "datasetname" to "WTGFKJZ.11B.PCINDN1" in "LIST"

2.F.   ? ch "nn" to "3" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.11B.PCINDN1 on FILE47

5.A.   ? use fr WTGFKJZ.PRTPCINX on FILE47

P C Indicator Statement Report, Old Format

In the TPA-1 report steps 1.A., 2.D., 2.E., 2.F., 4.C., 5.A., and 5.B. should be changed as follows:

1.A.   ? show dsnames like WTGFKJZ.PCC.OLD1S on FILE47

2.D.   ? ch "nnnnnn" to "051133" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.PCC.OLD1S" in "LIST"

2.F.   ? ch "nn" to "215" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.PCC.OLD1S on FILE47

5.A.   ? use fr WTGFKJZ.PRTPCOX on FILE47

5.B.   ? ch "XXX" to "11B" in all

The "old format" MOSs include: 05B 05C 13F 15D 16D
16E 26L 26Q 31M 43M 44B 44E 57E 61B 63H 63W 67U 68G 71D
71L 71Q 75B 76X 96B.

P C Indicator Statement Report, Old Format, by MOS

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.43M.PCIND on FILE47

2.D.   ? ch "nnnnnn" to "051133" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.43M.PCIND" in "LIST"

2.F.   ? ch "nn" to "186" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.43M.PCIND on FILE47

5.A.   ? use fr WTGFKJZ.PRTPCIOX on FILE47

5.B   ? ch "XXX" to "43M" in all

Technical Prerequisites Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.11B.TECHPRE on FILE47

2.D.   ? ch "nnnnnn" to "059398" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.11B.TECHPRE" in "LIST"

2.F.   ? ch "nn" to "14" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.11B.TECHPRE on FILE47

5.A.   ? use fr WTGFKJZ.PRTTPX on FILE47

5.B   ? ch "XXX" to "11B" in all

TPA-3 Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.43M.PG3 on FILE47

2.D.   ? ch "nnnnnn" to "029746" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.43M.PG3" in "LIST"

2.F.   ? ch "nn" to "12" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.43M.PG3 on FILE47

5.A.   ? use fr WTGFKJZ.PRT3OLDX on FILE47

5.B.   ? ch "XXX" to "43M" in all

Knowledge Statement Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like &KJZ.43M.B_KNOW on FILE47
       (Where the appropriate BSEP number is inserted
       at "_")

2.D.   ? ch "nnnnnn" to "059398" in all

2.E.   ? ch "datasetname" to "&KJZ.43M.B_KNOW" in "LIST"

2.F.   ? ch "nn" to "236" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.43M.B_KNOW on FILE47

5.A.   ? use fr WTGFKJZ.PRTKNX on FILE47

5.B.   ? ch "XXX" to "43M" in all

Errata Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.11B.ERRATA on FILE47

2.D.   ? ch "nnnnnn" to "029043" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.11B.ERRATA" in "LIST"

2.F.   ? ch "nn" to "176" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.11B.ERRATA on FILE47

5.A.   ? use fr WTGFKJZ.PRTERRX on FILE47

5.B.   ? ch "XXX" to "11B" in all

TPA-X Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

```
1.A.   ? show dsnames like WTGFKJZ.71Q.TPAX on FILE47

2.D.   ? ch "nnnnnn" to "020746" in all

2.E.   ? ch  "datasetname" to "WTGFKJZ.71Q.TPAX" in "LIST"

2.F.   ? ch "nn" to "55" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.71Q.TPAX on FILE47

5.A.   ? use fr WTGFKJZ.PRTTPAXX on FILE47

5.B.   ? ch "XXX" to "71Q" in all
```

Complete Task Statement Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C., 5.A., and 5.B. should be as follows:

```
1.A.   ? show dsnames like WTGFKJZ.TASK.COMPLETE on FILE47

2.D.   ? ch "nnnnnn" to "059398" in all

2.E.   ? ch  "datasetname" to "WTGFKJZ.TASK.COMPLETE" in "LIST"

2.F.   ? ch "nn" to "154" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.TASK.COMPLETE on FILE47

5.A.   ? use fr WTGFKJZ.TASKCOMP on FILE47

5.B    ? ch "XXX" to "11B" in all
```

MOS Task Statement Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C., 5.A., and 5.B. should be as follows:

```
1.A.   ? show dsnames like WTGFKJZ.11B.TASKPRT on FILE47

2.D.   ? ch "nnnnnn" to "059398" in all.

2.E.   ? ch  "datasetname" to "WTGFKJZ.11B.TASKPRT" in "LIST"

2.F.   ? ch "nn" to "61" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.11B.TASKPRT on FILE47

5.A.   ? use fr WTGFKJZ.TASKMOS on FILE47

5.B.   ? ch "XXX" to "11B" in all
```

Subtask Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.F001.SUBTASK on FILE47

2.D.   ? ch "nnnnnn" to "051133" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.F001.SUBTASK" in "LIST"

2.F.   ? ch "nn" to "76" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.F001.SUBTASK on FILE47

5.A.   ? use fr WTGFKJZ.PRTSUBT on FILE47

5.B.   ? ch "XXX" to "F001" in all

Subtask List Report

The commands in steps 1.A., 2.D., 2.E., 2.F., 4.C.,
5.A., and 5.B. should be as follows:

1.A.   ? show dsnames like WTGFKJZ.11B.SUBLIST on FILE47

2.D.   ? ch "nnnnnn" to "051133" in all

2.E.   ? ch "datasetname" to "WTGFKJZ.11B.SUBLIST" in "LIST"

2.F.   ? ch "nn" to "8" in "SEQ"

4.C.   ? show dsnames like WTGFKJZ.17K.SUBLIST on FILE47

5.A.   ? use fr WTGFKJZ.PRTDISCX on FILE47

5.B.   ? ch "XXX" to "11B" in all

THE ETAP REPORTS

Description of a TPA-1 Report

The TPA-1 report, entitled "Complete Extended Task
Analysis Procedures Results," provides a summary of the
major findings from the task analysis, and serves as a
reference to other information which may be of interest
to the user. The following example of a TPA-1 report is
for a task that appears in several MOSs. By contract
agreement, however, it was analyzed only in the parent
MOS. In this case, the TPA-1 report contains a message
in the "comments" section, indicating the parent MOS.
The task used in this example also appears in MOSs 11C,
11M, 19D, and 19E. The original analysis in MOS 12B is
included for comparison.

TASK NUMBER: 051-192-1002   BSEP I   ANALYSIS SITE: BENN
INSTALL THE M16A1 BOUNDING ANTIPERSONNEL MINE(WITH/WITHOUT TRIPWIRE)

MANUAL: FM 7-11B 1/2 (JULY 1978)
DATE STARTED: DATE COMPLETED: HOURS:
ORIGINAL ANALYSIS: VERIFICATION: INSTRUCTIONAL REVIEW:

- - - - - - - - - - - - - TASK SYNOPSIS - - - - - - - - - - - - - -

- - - - - - - - - - - - - - EQUIPMENT - - - - - - - - - - - - - - -
NONE

- - - - - - - - - - - COMMENTS NO ERRATA - - - - - - - - - - - - -
ANALYSIS REQUIRED IAW CONTRACT MOD P00005. ORIGINAL ANALYSIS
FOUND IN MOS 12B

- - - - - - - - - - - - - - MAJOR STEPS - - - - - - - - - - - - - -

- - - - - - - - - MOTOR SKILLS NOT ANALYZED - - - - - - - - - - -
45A MULTI-LIMB COORDINATION   46A OPERATE EQUIPMENT - MANUALLY LIFT
45B MANUAL DEXTERITY   46B USE HAND TOOLS - DETERMINE SIZE
45C CONTROL PRECISION   46C INSTALL, RELOCATE AND REMOVE
45D RESPONSE ORIENTATION   46D MAINTAIN SUBSYSTEMS W/HAND TOOLS
45E REACTION TIME   46E USE TEST EQUIPMENT
45F RATE CONTROL   46F FORCE, SHAPE, FABRICATE MATERIALS
45G FINGER DEXTERITY   46G CHECKS AND SERVICES
45H ARM-HAND STEADINESS   46H PERFORM COMBAT OR POLICE ACTIONS
45I WRIST-FINGER SPEED   46I PERFORM CLERICAL DUTIES
45 _____   46J CARE FOR THE INJURED OR INFIRM
                                 46 _____

     CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:
COMPLETE EXTENDED TASK ANALYSIS PROCEDURES RESULTS   12/16/82
                                                         TPA-1

MOS: 12B COMBAT ENGINEER
TASK NUMBER: 051-192-1002   BSEP I   ANALYSIS SITE: BELV
INSTALL/REMOVE THE M16A1 BOUNDING FRAGMENTATION ANTIPERSONNEL
MINE

  MANUAL: FM 5-12B W/C 1/2 (DRAFT 1982)
  DATE STARTED: 200482 DATE COMPLETED: 150982 HOURS: 6
  ORIGINAL ANALYSIS: 200482 VERIFICATION: 260582 INSTRUCTIONAL
  REVIEW: 150982
- - - - - - - - - - - - - TASK SYNOPSIS - - - - - - - - - - - - - -

INSTALL AND ARM MINE SO THAT DETONATION WILL OCCUR WHEN 8-45 LBS
PRESSURE ON
PRESSURE PRONGS OR A PULL OF 3-15 LBS ON TRIP WIRE AND DISARM AND
WITHOUT CAUSING DETONATION. TASK PERFORMED UNDER SUPERVISION

- - - - - - - - - - - - - - EQUIPMENT - - - - - - - - - - - - - - - -
M16A1 MINE, M605 FUZE, M25 WRENCH, TRIPWIRE, ENTRENCHING TOOL,
SANDBAG,STAKES, SIDECUTTER PLIERS, NAILS

- - - - - - - - - - - - - COMMENTS ERRATA - - - - - - - - - - - - -
          NONE

- - - - - - - - - - - - - - MAJOR STEPS - - - - - - - - - - - - - - - -
1. INSTALL AND ARM THE MINE WITHOUT TRIPWIRES
2. INSTALL AND ARM THE MINE WITH TRIPWIRES
3. DISARM AND REMOVE THE MINE

- - - - - - - - - - MOTOR SKILLS ANALYZED - - - - - - - - - - - - - - -
45A MULTI-LIMB COORDINATION	46A OPERATE EQUIPMENT - MANUALLY LIFT
X45B MANUAL DEXTERITY	X 46B USE HAND TOOLS - DETERMINE SIZE
45C CONTROL PRECISION	X 46C INSTALL, RELOCATE AND REMOVE
45D RESPONSE ORIENTATION	46D MAINTAIN SUBSYSTEMS W/HAND TOOLS
45E REACTION TIME	46E USE TEST EQUIPMENT
45F RATE CONTROL	46F FORCE, SHAPE, FABRICATE MATERIALS
X45G FINGER DEXTERITY	46G CHECKS AND SERVICES
X45H ARM-HAND STEADINESS	X 46H PERFORM COMBAT OR POLICE ACTIONS
45I WRIST-FINGER SPEED	46I PERFORM CLERICAL DUTIES
45 _____	46J CARE FOR THE INJURED OR INFIRM
	46 _____

        The MOS number and name in the heading were taken
from Enlisted Career Management Fields and Military
Occupational Specialities, manual number AR-611-201. The
task number and name as well as the manual or task list
from which it was derived, is indicated, along with the
manual number and other information concerning the dates
and times of the analysis and verification interviews.
These data include: (a) the date the analysis started;
(b) the date when the primary data collection process was
completed, and when the results were sent to the home
office for further analysis; (c) the date the results
were reviewed with a second SME; and (d) the date the
results were reviewed by a school instructor and approved
by the respective support or training center. As of 22
March 1982, an instructional review was not completed for
BSEP II tasks unless the task was resident trained. The
heading also includes a four-character code indicating
the location of the original analysis and the number of
hours spent on the initial interview and task write-up.

        There are five major sections in the body of the
report. The TASK SYNOPSIS is usually an expanded task
statement clarifying the dimensions of the task.

EQUIPMENT will list major material items such as tools, other supplies, and test equipment required to successfully complete the task. The COMMENTS section contains pertinent observations made by the analyst and clarifying statements of the SME. Certain comments describing a difference between task completion in the field and in training requirements were identified as "discrepancies" by the SME. These discrepancies are indicated with an asterisk (*) in the first column and will appear as the last entries in the COMMENTS section. A separate discrepancies report lists all such comments for each MOS. The heading of the comments section will indicate either ERRATA or NO ERRATA. If ERRATA is indicated, there will be a separate attachment to the comments section (see ERRATA REPORT). These reports list specific additions to or deletions from the ETAP report as well as non-specific comments about the task which were recommended through the review process report (TRADOC Form 314-4). Results of the review process, conducted at the support and training schools (TRADOC Form 314-R), which were considered judgemental in nature or that would have added or deleted procedural steps are also included.

As identified by the analyst and the SME, the section headed MAJOR STEPS lists the steps that must be performed to successfully complete the task. As of July 1982, certain motor skills were considered necessary for the successful completion of certain tasks. The heading of the MOTOR SKILLS section will show whether they have been. analyzed. If analyzed, the applicable motor skills are preceded by an "X". The alpha-numeric code is the prerequisite competency code corresponding to that motor skill. When entries under the five major headings exceed the space provided, the entry in the section will read "see comments attached." This indicates that the entry is listed in the COMMENTS ATTACHED REPORT under the appropriate heading.

TPA-1 reports exist in print format for every MOS analyzed under the RCA contract. The following is a list of MOSs included: 000 05B 05C 05G 11B 11C 11H 11M 12B 13B 13E 13F 15D 15E 16D 16E 16H 16P 17B 17C 17K 19D 19E 24C 24H 26L 26Q 27E 31J 31M 31N 31V 32D 32H 33S 35K 36C 36K 43E 43M 44B 44E 45B 45K 52C 52D 54E 55B 55D 57E 57H 61B 61C 62B 62E 63G 63H 63N 63W 64C 67G 67N 67T 67U 67V 67Y 68B 68D 68F 68G 68H 68J 68M 71D 71L 71M 71P 71Q 72E 74D 74F 75B 76C 76P 76V 76W 76X 76Y 82C 91B 93J 94B 95B 95C 96B. MOS "000" refers to the common soldier tasks.

Description of a Comments Attached Report

The Comments Attached Report consists of statements from any section of the TPA-1 report that exceed the

space provided on the form. The information in this report is accompanied by the heading from the TPA-1 sections to which it applies (Task Synopsis, Equipment, Comments, or Major Steps). In the example below, entries are from the COMMENTS section.

CONTRACT NO. DABT60-81-C-0017

ATTACHMENT TO TPA-1 OF
MOS: 11B   TASK NUMBER: 071-312-3006

COMMENTS

1.   IF A TARGET AT 500 METERS IS PRESENT, CHOOSE IT AS YOUR TARGET BECAUSE IT IS MUCH EASIER TO FIGURE YOUR METERS OF CHANGE. MATH OR FRACTIONS WOULD BE HARDER TO FIGURE AT OTHER RANGES

1 MIL AT 1000 METERS EQUALS 1 METER OF CHANGE
1 MIL AT 500 METERS EQUALS 1/2 METER OF CHANGE
1 MIL AT 300 METERS EQUALS 3/10 METER OF CHANGE
1 MIL AT 400 METERS EQUALS 4/10=2/5 METER OF CHANGE
1 MIL AT 600 METERS EQUALS 6/10=3/5 METER OF CHANGE
1 MIL AT 700 METERS EQUALS 7/10 METER OF CHANGE

2.   THE STEPS WHICH STATE "FIRE A SHORT BURST OF 6 TO 9 ROUNDS AT TARGET..." ARE ONLY USED AS APPROXIMATION. YOU WOULD NOT COUNT THE NUMBER OF ROUNDS FIRED IN A SHORT BURST. THE INDIVIDUAL SITUATION AND TYPE OF TARGET WOULD DICTATE LENGTH OF BURST AND NUMBER OF ROUNDS FIRED

        The following is a list of the MOSs that have a Comments Attached report accompanying a TPA-1 report:
        000 05B 05C 05G 11B 11C 11H 11M 12B 13B 13E 13F 15E 16D
        16E 16H 16P 17B 17C 17K 19D 19E 24C 24H 26L 26Q 27E 31J
        31M 31V 32H 33S 35K 36C 36K 43E 43M 45B 45K 52C 52D 54E
        55B 57H 61B 61C 62B 63G 63H 63N 63W 64C 67N 67T 67U 67V
        67Y 68B 68G 68J 68M 71D 71L 71M 71P 72E 74D 74F 75B 76C
        76V 82C 91B 94B 95B 95C 96B.

        Description of a Discrepancies Report

        Statements from the TPA-1 report or Comments report that describe a field training procedure which differs from established doctrinal procedures appears in this report. An example of a Discrepancies report follows:

        MOS BASELINE SKILLS PROJECT   PAGE 1
        DATE PRINTED:

        CONTRACT NO. DABT60-81-C-0017

                                        DISCREPANCIES
        MOS   TASK NO.   BSEP   STATEMENT

```
11B   071-312-3005  I        STEP AND FIGURE 7 IN FM 23-67 PAGE 9
                             ARE, TOGETHER, INCORRECT OR CONFUSING.
                             GRASP THE OPERATING ROD WITH THE FACE
                             OF BOLT AWAY FROM THE BODY, BOLT ON TOP.
                             HOLD OPERATING ROD AND BODY FIRMLY, PU
                             LL BACK ON THE BOLT AND LIFT UP THE FACE
                             OF THE BOLT. REASON: WHEN REMOVING THE
                             OPERATING ROD AND BOLT FROM THE
                             RECEIVER, BOLT IS ON TOP. MORE SOLDIER
                             S WILL SEPARATE THE OPERATING ROD AND
                             BOLT IN THIS MANNER. SECURE BOTH BOLT
                             AND OPERATING ROD FIRMLY.


11B   071-325-4405  I        7.REVERSE PICTURES ON UPDATED DRAFT OF
                             TASK 071-325-4405, PAGE 3, OF GRENADES
                             AN/M14 TH3, AND M67.

                             8. WRONG MODEL NUMBER ON UPDATED DRAFT
                             OF TASK 071-325-4405, PAGE 3, UNDER 2C.
                             M23 SHOULD BE M34.
```

      The entries in these reports are listed by tasks with
a corresponding MOS. The MOSs included in this report
are: 000 05G 11B 11C 11H 11M 12B 13B 13E 13F 15D 15E 16D
16E 16P 17B 17C 17K 19D 19E 24H 26Q 27E 31J 31M 31N 31V
32D 32H 33S 35K 36C 36K 43M 44B 44E 45B 45K 52C 52D 54E
55B 55D 61B 62B 63G 63H 63N 63W 67G 67N 67T 67U 67Y 68B
68D 68F 68G 68H 71L 71M 71Q 72E 74D 74F 76C 76W 82C 91B
95B 96B.

TPA-2 Report

Description of a TPA-2 Report

      The TPA-2 report is the major report in the extended
task analysis procedure. It contains a hierarchical
listing of every major task and subtask step for the
critical tasks analyzed under this contract. An example
of the report appears below:

```
MOS: 11B     TASK: 071-311-2006        DATE PRINTED:        TPA-2

             TASK PERFORMANCE ANALYSIS - 2 (TPA-2)          PAGE
STEP NUMBER  PC CODE  J I D STEP STATEMENT

1.                          PREPARE FIELD EXPEDIENT AIMING STAKE
1.A.        41A                 USE AVAILABLE MATERIALS FOR AIMING
                                STAKES SUCH AS STICKS,
                                ROCKS, BOARDS, OR A LOG.
1.A.1.      12H 40A                 INSURE MATERIAL SELECTED WILL
                                    SUPPORT THE WEIGHT OF THE
                                    RIFLE (WEIGHT OF RIFLE PLUS A 30
                                    ROUND MAGAZINE IS 7.2
```

```
                                          POUNDS).
1.B.                                 POSITION AIMING STAKES.
1.B.1.         11A            <       IF USING A LOG OR SMALL BOARD,
                                      POSITION IT HORIZONTALLY ON
                                      THE GROUND.
1.B.2.         40A                    INSURE AIMING STAKES ARE SECUREL
                                      POSITIONED IN GROUND.
1.B.2.A.                                TEST AIMING STAKE FOR MOVEMENT
                                        BY APPLYING PRESSURE TO THE
                                        SIDE OF THE AIMING STAKE WHICH
                                        WILL BE LIMITING THE RIFLE.
1.B.3.                                 ADJUST AIMING STAKES.
1.B.3.A.                                 PLACE RIFLE ON AIMING STAKES.
1.B.3.A.1.     11B                         AIM RIFLE TOWARD DESIRED
                                           TARGETS OR SECTOR OF FIRE.
1.B.3.B.                                  ADJUST AIMING STAKES TO HOLD
                                          RIFLE IN POSITION RIFLE IS
                                          AIMED.

2.                               MAINTAIN A LOW POSITION TO OBSERVE
                                 AND FIRE.
2.A.           11A                  USE PRONE OR SIMILAR LOW MODIFIED
                                    POSITION TO PRESENT THE
                                    SMALLEST POSSIBLE TARGET TO ENEMY
                                    OBSERVATION AND FIRE.
2.B.                                POSITION RIFLE FIRMLY AGAINST
                                    FIRING SHOULDER.
2.B.1.                                INSURE BUTT OF RIFLE FITS
                                      COMFORTABLY INTO THE POCKET OF T
                                      THE SHOULDER.

2.C.                         <      IF A HORIZONTAL LOG OR BOARD IS
                                    USED, RECOGNIZE RIFLE CAN LAY
                                    GRAZING FIRE ALONG MORE THAN ONE
                                    LINE OF COVER.
2.C.1.         02B 02G                IDENTIFY GRAZING FIRE WHEN THE
                                      CONE OF FIRE DOES NOT RISE
                                      MORE THAN 1 METER ABOVE THE GROU
                                      GROUND.
2.C.2.         41A                    RECOGNIZE AN ENTIRE SECTOR OF
                                      FIRE CAN BE COVERED WITH
                                      GRAZING FIRE IF TERRAIN PERMITS
                                      SUCH AS LOW LEVEL LAND.
2.D.           40A                  EXPOSE ONLY THOSE PARTS OF THE
                                    BODY NEEDED TO OBSERVE AND
                                    FIRE (END OF TASK).
```

The original Task Performance Analysis reports
(TPA-2s) were written using a generally accepted outline
format – Roman numeral, upper-case character, Arabic
numeral, etc. This was converted to a
computer-compatible format of numeric and alpha sequence,
with periods indicating the level of specificity in the
hierarchy. For example, under major step number one are

two substeps, 1.A and 1.B. The indentation of the textual material is consistent with this organization, and emphasizes the hierarchical nature of the task analysis.

The listings under the step statement columns are, to the fullest extent possible, accurate reproductions of the analyst's entries based upon interviews with the subject matter experts. The word "resource" in the step number columns indicates that a manual, chart or some other printed document is available to the soldier for reference in performing the step. The resource is identified in the step statement. When a subtask appears in the report its title and steps are listed, beginning with step number S1. Subtasks are segments of work that have been previously analyzed and which may appear in other tasks. During the interviews by the analyst may have marked the subtask by number rather than by writing the common job steps. Nevertheless, they appear in full somewhere in the report.

The "J I D" column refers to single character codes which indicate the presence in a job step, job aid, or a technical prerequisite. It also states whether or not the soldier is required to make a decision. An intrinsic job aid, defined as a training manual, a field manual, a manufacturer's manual, a conversion chart or some other documentation required to complete the job step, is indicated with a plus sign (+) in the "J" column. The presence of a technical prerequisite in the job step is indicated when a dollar sign ($) appears in the "I" column. If an instructor told the analyst that certain job steps were not taught as part of resident training, then those steps were identified as technical prerequisites. Step statements beginning with the words "if", "select(s)", "determine(s)", "choose(s)", "consider(s)", "decide(s)", "judges(s)", and "observe(s)", are highlighted with a less-than sign (<) in the "D" column.

As part of the ETAP, analysts determined from the SME what a soldier must know to successfully perform the task. The results of this procedure are listed under the p c column of the TPA-2 report. The three digit alpha-numeric codes correspond to the prerequisite competency taxonomy appearing in the appendix. The SME indicated that the underlying competency was necessary to complete the particular step by which it appeared. Before April 1982, pc codes were being applied to the TPA-3 and KA reports. After this time, they appeared on the TPA-2 reports. The MOSs for which TPA-3 and KA reports exist were designated as "old format" MOSs. In terms of information content, TPA-2 (new) = TPA-2 (old) + TPA-3 + KA. The old format TPA-2s require different programming and do not have a heading containing the line

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pc codes. The old format TPA-2s are: 05B 16D 31M 57E
67U 71Q 05C 16E 43M 61B 68G 75B 13F 26L 44B 63H 71D 76X
15D 26Q 44E 63W 71L 96B. In six MOSs, more than one
analysis was made of the same task number. To
distinguish between the analyses, the following
clarifications have been made:

16E   C   Casualty mode
           N   ADP normal mode

24C   A   Branch and flow troubleshooting
           B   Fault isolate troubleshooting

52D   A   Repair AC motors
           B   Repair DC motors

54E   A   Nuclear attack   ) tasks
           B   Chemical/biological attack) 031-503-3005,7
           A   Implement MOPP) task
           B   Utilize MOPP   ) 031-503-3008

61C   (blank)   Analyzed prior to Nov 82) the tasks have
           A   Analyzed in Nov 82   ) different task
                                                     statements

74D   H   Analyzed at Ft. Benjamin Harrison
           L   Analyzed at Ft. Lee

Description of a K A Report

     The Knowledge Analysis report lists the prerequisite
competency statements and the associated pc code which
appears on the original KA report form. The following is
an example of a Knowledge Analysis report:

          CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

          MOS: 43M   TASK NUMBER: 101-513-1101
                                                     KNOWLEDGE
                                                     ANALYSIS
STATEMENT CATEGORY STEP NUMBER   PAGE 1
_____

          06A   1.A.
ADJUST SUPPORT LEG: CLOCKWISE TO LOWER   COUNTERCLOCKWISE TO RAISE

          41G   1.A.
ASSOCIATE PUSHING IN VALVE HANDLES WITH CLOSING OFF AIR SUPPLY

          06A   1.A.
LOWER CASTER UNTIL IT CONNECTS WITH HORIZONTAL HOLES

          02G   3.E.
PLACE GENERATOR SET AT LEAST 25 FEET FROM WORK AREA

41E   7.F.
PLACE CORDS IN THEIR RESPECTIVE TERMINALS: WHITE CORD-TOP BLACK CORD
MIDDLE GREEN CORD - BOTTOM

As a result of home-office analysis of the old
format TPA-2s, prerequisite competencies were identified
within job steps. The KA report shows a pc taxonomy
code, a reference to the old format TPA-2, as well as a
prerequisite competency indicator statement. It is
organized by task number within MOSs. The entries are by
step number. MOSs for which K A reports exist include:
05B 16E 44B 63W 71Q 05C 26L 44E 67U 75B 13F 26Q 57E 68G
76X 15D 31M 61B 71D 96B 16D 43M 63H 71L.

Description of a P C Indicator Statement Report

This is a report of the performance or job step
statements from the TPA-2 reports for which baseline
prerequisite skills were identified. Baseline
prerequisite skills are identified by the prerequisite
competency codes (pcc) in the column headed "CODE."
These reports are organized by pc code (see Table 1 in
the appendix for a list of the prerequisite competencies
associated with these codes). An example appears below:

         MOS BASELINE SKILLS PROJECT   11B PAGE 1
                                            DATE PRINTED:
         CONTRACT NO. DABT60-81-C-0017

       COMPLETE PREREQUISITE COMPETENCIES INDICATOR STATEMENTS
                                       NEW FORMAT - BSEP I

MOS CODE	STATEMENT	TASK NO.	STEP NO.
000 11B	PLACE BETWEEN LEGS JUST ABOVE KNEES.	031-503-1002	1.A.2.B.
000 11B	IF ARMED, HOLD RIFLE BETWEEN LEGS AND PLACE HEADGREAR ON MUZZLE.	031-503-1002	1.A.2.C.
000 11B	ROTATE MASK SO HEAD HARNESS IS FACING IN.	031-503-1002	2.A.1.
000 11B	POSITION THUMBS INSIDE AND UNDERNEATH CHEEK STRAPS, PALMS ON CHEEK POUCHES.	031-503-1002	2.A.2.
000 11B	TURN HOOD INSIDE OUT OVER FACEBLANK.	031-503-1003	1.B.
000 11B	GRASP MASK IN ONE HAND AT	031-503-1003	1.B.1.

BACK OF CHEEK POUCHES, HEAD
HARNESS FACING OUT.

000 11B SWING HOOD OUTWARD AWAY   031-503-1003   1.D.1.
         FROM THE BODY.

;00 11B ALLOW BOTTOM OF HOOD AND   031-503-1003   1.D.4.
         STRAPS TO FALL FREELY DOWN FRONT
         OF BODY.

000 11B DRAW IMAGINARY HORIZONTAL   031-503-1003   1.E.3.B.
         LINE ACROSS HOOD FROM OPPOSITE
         SIDE OF BODY TO SAME SIDE AS FREE HAND.

000 11B FOLD UP BOTTOM EDGE OF HOOD   031-503-1003   1.E.5.
         ALONG CREASE UNTIL IT CAN BE
         GRASPED IN THE SAME HAND HOLDING
         THE MASK WITH BOTTOM EDGE
         FLUSH WITH TOP OF MASK.

000 11B TUCK LOOSE ENDS OF HOOD IN   031-503-1003   1.E.6.
         BETWEEN THE FOLDS WITH
         FREE HAND.

000 11B PULL FLAP OUT AND TOWARD   031-503-1003   2.B.2.
         BODY UNTIL SNAP FASTENERS
         DISENGAGE.

000 11B NOTE THE SIGN IS MARKED ON   031-503-1004   1.G.6.D.2.
         THE LEFT FRONT WITH A SMALLER
         RECTANGLE CONTAINING ONE OF THE
         FOLLOWING SYMBOLS.

000 11B TURN HOOD RIGHT SIDE OUT.   031-503-1010   2.A.1.

000 11B ROTATE MASK SO OUTSIDE CHEEK   031-503-1010   3.D.1.
         POUCH IS VISIBLE.

    These reports were created from TPA-2 reports of the
"new format" MOSs. Changes and/or additions to the TPA-2
reports would not necessarily appear on the P C Indicator
Statement Reports. Performance statements are organized
by MOS within pc code.

    P C Indicator Statement reports include all pc codes
except for 35G: 01A 01B 01C 01D 01E 01F 01G 01H 01I 02A
02B 02C 02D 02E 02F 02G 03A 03B 03C 04A 04B 04C 04D 04E
04F 05A 05B 05C 05D 05E 05F 05G 05H 05I 06A 06B 06C 06D
07A 07B 07C 07D 08A 08B 08C 08D 08E 09A 09B 09C 09D 09E
10A 11A 11B 12A 12B 12C 12D 12E 12F 12G 12H 13A 13B 13C
13D 13E 14A 14B 14C 14D 14E 14F .14G 15A 15B 15C 15D 15E
15F 15G 15H 15I 15J 16A 16B 16C 16D 16E 16F 16G 16H 17A
17B 17C 18A 18B 18C 19A 19B 19C 19D 25A 25B 25C 25D 25E
25F 26A 26B 26C 26D 26E 27A 27B 27C 27D 27E 27F 27G 28A

```
28B 28C 28D 29A 29B 29C 29D 29E 29F 30A 30B 30C 31A 31B
31C 31D 31E 32A 32B 32C 32D 32E 33A 33B 33C 33D 34A 34B
34C 34D 35A 35B 35C 35D 35E 35F 35H 35I 36A 36B 36C 36D
36E 36F 36G 36H 37A 37B 37C 37D 37E 37F 37G 37H 38A 38B
38C 38D 38E 38F 38G 38H 38I 38J 39A 39B 39C 40A 40B 40C
41A 41B 41C 41D 41E 41F 41G 41H.
```

The pc codes for which BSEP II P C Indicator
Statement reports exist include all pc codes except for
16A, 18B, 18C, 35G, and 36G:

```
                                       01A 01B 01C 01D 01E 01F 01G
01H 01I 02A 02B 02C 02D 02E 02F 02G 03A 03B 03C 04A 04B
04C 04D 04E 04F 05A 05B 05C 05D 05E 05F 05G 05H 05I 06A
06B 06C 06D 07A 07B 07C 07D 08A 08B 08C 08D 08E 09A 09B
09C 09D 10A 11A 11B 12A 12B 12C 12D 12E 12F 12G 12H 13A
13B 13C 13D 13E 14A 14B 14C 14D 14E 14F 14G 15A 15B 15C
15D 15E 15F 15G 15H 15I 15J 16B 16C 16D 16E 16F 16G 16H
17A 17B 17C 18A 19A 19B 19C 19D 25A 25B 25C 25D 25E 25F
26A 26B 26C 26D 26E 27A 27B 27C 27D 27E 27F 27G 28A 28B
28C 28D 29A 29B 29C 29D 29E 29F 30A 30B 30C 31A 31B 31C
31D 31E 32A 32B 32C 32D 32E 33A 33B 33C 33D 34A 34B 34C
34D 35A 35B 35C 35D 35E 35F 35H 35I 36A 36B 36C 36D 36E
36F 36H 37A 37B 37C 37D 37E 37F 37G 37H 38A 38B 38C 38D
38E 38F 38G 38H 38I 38J 39A 39B 39C 40A 40B 40C 41A 41B
41C 41D 41E 41F 41G 41H.
```

Description of a P C Indicator Statement Report, by MOS

The Prerequisite Competency Indicator Statement
reports listed by MOS contain the same information as
Complete Prerequisite Competency Indicator Statement
reports. However, these reports are organized by MOS,
whereas the Complete Prerequisite Competency Indicator
Statement reports are organized by pc code. The
following example is for MOS 11B:

```
MOS BASELINE SKILLS PROJECT          PAGE      2
                                                  DATE PRINTED:
        CONTRACT NO. DABT60-81-C-0017

        PREREQUISITE COMPETENCIES INDICATOR STATEMENTS

MOS CODE STATEMENT                     TASK NO.        BSEP STEP NO.

11B 01A  RECOGNIZE THE NUMBERS 1 AND 2 071-311-2105   I  2.E.2.
         ON LEAF SIGHT REPRESENT THE
         RANGES OF 100 AND 200 METERS.

11B 01A  RECOGNIZE SENSINGS ARE MADE   071-311-2105   I  5.B.1.A.
         IN BOTH RANGE AND DEVIATION TO
         THE NEAREST 5 METERS.

11B 01A  SET SIGHT AT 500 METERS AND   071-312-3009   I  1.B.
         ZERO WINDAGE.
```

```
11B 01A    SET REAR LEAF SIGHT AT 500      071-312-3009    I   1.B.2.
           METERS.

11B 01A    SET SIGHT AT 500 METERS AND     071-312-3009    I   2.F.
           ZERO WINDAGE.

11B 01A    SET REAR LEAF SIGHT AT 500      071-312-3009    I   2.F.2.
           METERS.

11B 01A    IDENTIFY RANGE GIVEN BY SQUAD   071-313-3454    I   3.A.1.
           LEADER AS TANGE TO TARGET IN
           METERS.

11B 01A    IF CLICKS ARE NOT HEARD, FEEL   071-313-3455    I   1.F.1.A.
           FOR BARREL MOVING PAST BARREL
           NOTCHES TWO TIMES.

11B 01A    USE A DIME OR ONE DOG TAG IN    071-313-3455    I   4.B.1.
           PLACE OF FIRE GAGE, WHEN FIRE
           GAGE IS NOT AVAILABLE.

11B 01A    IDENTIFY FOUR LATCHES ON        071-315-0003    I   2.B.
           CARRYING CASE.

11B 01A    DISREGARD THE NUMBERS 2,        071-315-2308    I   3.C.2.
           3, 4, AND THE DOT OVER EACH AS
           APPLYING ONLY TO THE M-203 GRENADE LAUNCHER.

11B 01A    RECOGNIZE EACH ASSAULT TEAM     071-326-0556    I   1.A.2.

           WILL HAVE AT LEAST 2 MEN
           INCREASING IN NUMBER DEPENDING ON THE SIZE OF THE
           BUILDING.

11B 01A    IDENTIFY HOW MUCH AMMUNITION    071-326-5501    I   4.A.5.A.1.
           EACH FIRE TEAM MEMBER HAS
           LEFT.

11B 01A    IDENTIFY ANY CASUALTIES OR      071-326-5501    I   4.A.5.A.2.
           INJURIES.

11B 01A    ESTIMATE SIZE OF ENEMY.         071-326-5606    I   2.A.1.A.

11B 01A    IDENTIFY ANY CASUALITIES OR     071-326-5606    I   4.A.5.A.2.
           INJURIES.

11B 01A    IDENTIFY ANY MALFUNCTIONING,    071-326-5606    I   4.A.5.A.3.
           LOST, OR DAMAGES.
           EQUIPMENT.
```

        For BSEP I, the following MOSs are included in these
   reports: 000 05G 11B 11C 11H 11M 12B 13B 13E 15E 16H 16P
   17B 17C 17K 19D 19E 24C 24H 27E 31J 31N 31V 32D 32H 33S
   35K 36C 36K 43E 45B 45K 52C 52D 54E 55B 55D 57H 61C 62B

```
62E  63G  63N  64C  67G  67N  67T  67V  67Y  68B  68D  68F  68H  68J
68M  71M  71P  72E  74D  74F  76C  76P  76V  76W  76Y  82C  91B  93J
94B  95B  95C.
```

The MOSs in the BSEP II reports include: 000 05G
```
11B  11C  11H  11M  12B  13B  13E  15E  16H  16P  17B  17C  17K  19D
19E  24C  24H  27E  31J  31N  31V  32D  32H  33S  35K  36C  36K  43E
45B  45K  52C  52D  54E  55B  55D  57H  61C  62B  62E  63G  63N  64C
67G  67N  67T  67V  67Y  68B  68D  68F  68H  68J  68M  71M  71P  72E
74D  74F  76P  76V  76W  76Y  82C  91B  93J  94B  95B  95C.
```

Description of a Complete P C Indicator Statement Report, Old Format

These reports contain the performance statements from the Knowledge Analysis Reports for the 24 "old format" MOSs. The "old format" Complete P C Indicator Statement reports contain references to the TPA-2 reports.

MOS BASELINE SKILLS PROJECT   PAGE   1
                                                    DATE PRINTED:
CONTRACT NO. DABT60-81-C-0017

COMPLETE PREREQUISITE COMPETENCIES INDICATOR STATEMENTS
OLD FORMAT - BSEP I

MOS CODE	STATEMENT	TASK NO.	STEP NO.
15D 01A	ZERO THE HORIZONTAL AND MICROMETER SCALES	061-285-2020	3.C
15D 01A	ZERO SCALE WITH MICROMETER KNOB TO EXACTLY 000 ON TOP SCALE AND 3200 ON BOTTOM. SCALE	061-285-2030	2.D
15D 01A	PERFORM THEODOLITE PLATE LEVEL ADJUSTMENT (REFER TO TM 9-142-5-485-10-2) 2-134, SECTION (C)	061-285-2050	2.A
15D 01A	SET 00.0 MILS ON HORIZONTAL SCALE WITH HORIZONTAL SLOW MOTION SCREW	061-285-2050	3.B
15D 01A	PERFORM STEP IN TM 9-1425-485-10-2, PARAGRAPH 2-98, PGS 2-137 TO 2-138	061-285-2050	6.A
15D 01A	PLACE STOP PIN IN 960.0 POSITION CONSOLE SLOWLY THROUGH 6400 MILS OF	061-285-2050	7.C
16E 01A	RECORD SETTING OF BORESIGHT SHIFT	441-052-1050	1.I

```
                COMPENSATOR ADJUST KNOB & THEN SET
                IT TO ZERO

16E  01A    TURN CWAR AZIMUTH MIL RING TO THAT   441-052-1050   2.B
                SAME SETTING


16E  01A    SET CWAR AZIMUTH MIL RING INDICATION441-052-1050   2.B
                TO SAME SETTING AS AZIMUTH MIL RING
                ON BASE PIECE


16E  01A    TURN HIPIR AZIMUTH MIL RING TO       441-052-1051   2.B
                SAME INDICATION


16E  01A    MANUALLY ROTATE ANTENNA CLOCKWISE    441-052-1054   3.A
                UNTIL AZIMUTH MIL RING INDICATES ZERO.


16E  01A    ROTATE AZIMUTH HANDWHEEL UNTIL IT    441-052-1054   3.B
                INDICATES ZERO MILS


16E  01A    ROTATE AZIMUTH HANDWHEEL ON FIRING   441-052-1055   2.F
                CURSOR MOVEMENT

16E  01A    REPORT TARGET SPEED & ALTITUDE TO THE441-052-1055   3.C
                TCO (TACTICAL CONSOLE OPERATOR)

16E  01A    SET INT ANT SYNC SWITCH TO 0 RPM     441-052-1059   1.D

16E  01A    INSERT IFF CODE AS DIRECTED BY TO    441-052-1060   3.B
                (CODE IS CLASSIFIED INFORMATION SET BY
                 TURNING DIALS)
```

Description of a P C Indicator Statement Report, Old Format

These reports contain the same information as the preceding reports except that the old format MOS P C Indicator Statement reports are organized by MOS.

```
            MOS BASELINE SKILLS PROJECT              PAGE      1
            CONTRACT NO. DABT60-81-C-0017            DATE PRINTED:

            PREREQUISITE COMPETENCIES INDICATOR STATEMENTS

 MOS   CODE STATEMENT                        TASK NO.   BSEP STEP NO.

 43M   01A  CONTINUE SEWING UNTIL STITCH     101-513-1161 I  2.E.
                LINE OVERLAPS STARTING POINT BY APPROX 1"

 43M   01A  MARK OFF 1" INDICATOR FROM       101-513-1162 I  2.B.
                WAISTBAND
```

```
43M   01A   MARK OFF INDICATORS OF          101-513-1163 I   1.B.
            VARIOUS LENGTHS: 1/2" 1" 2&1/2" 5
            SQUARE 2&1/2" X 2&1/2" SQUARE (PATCH)

43M   01A   MEASURE 72" OF THREAD           101-513-1205 I   2.A.

43M   01A   MATCH NUMBER ON GROMMET         101-513-1206 I   1.B.
            WITH NUMBER ON PUNCH AND DIE SET

43M   01A   MEASURE VARIOUS DISTANCES       101-513-1208 I   1.A.
            WITH A RULER: 1/8" 1/2" 3/4" 1" 2

43M   01A   MEASURE 2&3/4" FROM MOST        101-513-1209 I   1.A.
            EXTREME POINTS ON ALL SIDES OF DAM

43M   01A   SEW A SECOND STITCH ROW         101-513-1209 I   3.E.
            - 3/8" - 1/2" INSIDE FIRST ROW

43M   01A   MEASURE 2&3/4"                  101-513-1210 I   1.B.
            FROM SIDES OF DAMAGES AREA

43M   01A   MEASURE CHALKLINE 1/8"          101-513-1210 I   3.B.
            FROM FOLDED EDGES

43M   01A   CUT AND PREPARE THE PATCH       101-513-1211 I   2.A.
            MATERIALS: CUT OUT 2 PIECES OF PATCH MATERIAL
            IS 4" WIDER AND 2" LONGER THAN DAMAGED AREA CUT OUT

43M   01A   MEASURE 1/2" IDICATORS FROM     101-513-1211 I   2.A.
            RAW EDGE OF ALL SIDES OF PATCH

43M   01A   MEASURE WIDTH OF HEM WITH       101-513-1212 I   1.A.
            RULER (TO 1/8")

43M   01A   MEASURE AND MARK 2&1/2" FROM    101-513-1212 I   1.B.
            FROM EDGES OF BOTH SIDES OF DAMAGED

43M   01A   MEASURE 1/2" INWARD LENGTHWISE  101-513-1212 I   2.A.
            FROM RAW EDGES OF BOTH SIDES OF PATCH

43M   01A   FIND CENTER OF PATCH BY MEASURING 101-513-1212 I  2.B.
            LENGTH OF PATCH AND DIVIDING BY 2 MARK OFF
            WITH CHALK
```

This report is available for all MOSs besides 57E for BSEP II and all MOSs for BSEP I.

Description of the Technical Prerequisites Report

The Technical Prerequisites Report is a listing by MOS of the performance statements from the TPA-2 reports that indicate a skill or competency not taught as part of resident training. An example appears below:

TECHNICAL PREREQUISITES

MOS	TASK NO.	BSEP	STEP NO.	STATEMENT
11B	071-325-4405	I	2.H.	IDENTIFY APPEARANCE OF MK3A2.

There are 47 MOSs that have technical prerequisites
reports. They are: 000 05B 05C 05G 11B 11C 11H 12B 13B
13E 13F 15E 16D 16E 16H 16P 17B 17K 19D 24C 24H 27E 31J
31N 32D 33S 35K 36C 36K 43E 43M 44B 45K 52C 52D 54E 55B
57E 57H 61B 61C 62B 63G 63H 63N 63W 96B.

Description of a TPA-3 Report

The TPA-3 reports are listings of the task
performance statements taken from: (a) the p c codes of
the applicable competency, and (b) a reference to the
step number on the task performance analysis. This
report is the result of the interview process in which
the SME specified the skills the soldier must know to
perform the step. If the knowledge required to perform
the step is not taught as a part of the resident
training, then a "$" will appear in the column headed by
"IR". The information in these reports was later coded
directly on the TPA-2 reports.

CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

MOS: 43M   TASK NUMBER: 101-513-1101

TPA-3
PAGE 1

---

47   1.A.4.
ASSOCIATE PUSHING IN VALVE HANDLES WITH CLOSING OFF AIR SUPPLY

47   1.A.5.
ASSOCIATE "COUNTERCLOCKWISE" WITH CONCEPT OF DISCONECTING AIR HOSE

26   1.A.9.
KNOW WHAT A COTTER KEY IS

26   1.A.9.
KNOW WHAT A PINTLE IS

47   1.A.13.A
ASSOCIATE "COUNTERCLOCKWISE" AND "CLOCKWISE" WITH CONCEPT OF
LOWERING AND

RAISING SUPPORT LEG RESPECTIVELY

41   3.A.
RECOGNIZE THE FRONT AND REAR OF A HOLDDOWN ASSEMBLY

47   3.A.C.
ASSOCIATE COUNTERCLOCKWISE MOTION WITH LOOSENING A WINGNUT

15 I 3.E.
ESTIMATE DISTANCE OF 25' OR GREATER WITHOUT USE OF MEASURING
DEVICE

47   4.B.2.
ASSOCIATE COUNTERCLOCKWISE MOTION WITH LOOSENING A WINGNUT

47   7.A.1.
ASSOCIATE COUNTERCLOCKWISE MOTION WITH LOOSENING A WINGNUT

47   7.A.4.
ASSOCIATE CLOCKWISE MOTION WITH TIGHTENING A WINGNUT

41   7.A.5.
KNOW WHAT A PITMAN ROD CONNECTOR IS

47   7.A.6.C.
ASSOCIATE CLOCKWISE MOTION WITH TIGHTENING A WINGNUT

47   7.A.7.B.
ASSOCIATE POSITION OF CLAMP WITH TIGHTENING CAPABILITY OF WINGNUT

47   7.B.2.
ASSOCIATE CLOCKWISE MOTION WITH TIGHTENING A WINGNUT

26   7.B.6.
KNOW WHAT SEWING MACHINE "HEAD" IS

There are 25 MOSs for which TPA-3 reports exist.
They include: 05B 05C 13F 15D 16D 16E 26L 26Q 31M 43M
44B 44E 57E 61B 63H 63W 67U 68G 71D 71L 71Q 75B 76X 91B
96B. The "new format" TPA-3 reports differ from the "old
format" reports in that they list general statements
applicable to specific MOSs. They are available for only
the three MOSs -- 24H, 64C, and 91B. TPA-3 reports exist
in both the new and old formats for MOS 91B. The content
of the new format reports is as follows: 24H - topical
outlines of electrical fundamentals; 64C - skills needed
by drivers of military vechicles; and 91B - knowledge
statements peculiar to this MOS.

Description of Knowledge Statement Report

This report is a formatted listing of the
performance statements from the TPA-3 old format reports.

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They are organized by tasks within MOSs, and contain step
numbers and pc codes.

MOS BASELINE SKILLS PROJECT   PAGE   1
                                               DATE PRINTED:
CONTRACT NO. DABT60-81-C-0017

KNOWLEDGE STATEMENTS FOR MOS XXX

MOS	CODE	STATEMENT	TASK NO.	BSEP	STEP NO.
43M		KNOW WHAT A RETAINER PIN IS	101-513-1101	I	7.B.9.P.
43M		KNOW WHAT SASH BRUSH IS	101-513-1107	I	1.E.2.A.
43M		KNOW WHAT PRESSER FOOT IS	101-513-1107	I	1.Q.3.A.
43M	01	DETERMINE TEMPERATURE FROM THERMOMETER	101-513-1106	I	2.C.1.A.
43M	01	DETERMINE 110 VOLTS FROM GAUGE	101-513-1106	I	2.C.2.
43M	01	DETERMINE CYCLES/SECOND FROM GAUGE	101-513-1106	I	3.B.2.
43M	01	DETERMINE 1" DISTANCE ON A 12" RULER OR 18" ROD	101-513-1151	I	1.B.3.A.
43M	01	DETERMINE 1/2" DISTANCE ON A 12" RULER OR 18" ROD	101-513-1151	I	1.B.4.A.
43M	01	READ 1/2" FROM RULER	101-513-1153	I	1.C.
43M	01	READS 1/4" FROM RULER	101-513-1153	I	2.E.2.A.
43M	01	READ 1/2" FROM RULER	101-513-1153	I	2.E.2.C.
43M	01	READ 1/2" FROM RULER	101-513-1155	I	1.B.
43M	01	MEASURE FROM A RULER 1" 1/4" AND 1/16" AND AS INDICATED TO DISTANCES	101-513-1156	I	1.D.
43M	01	READ 1" 1/2" 1/4" AND 1/16" GRADATIONS FROM A RULER OR JEDGE SUCH DISTANCES	101-513-1157	I	1.B.
43M	01	READ FROM A RULER OR JUDGE DISTANCES OF 1/16" 1/8" 1/4" 1/2" OR 1"	101-513-1158	I	
43M	01	READ FROM A RULER OR JUDGE DISTANCES OF 1/16" 1/8" 1/4" 1/2" OR 2 & 1/2"	101-513-1159	I	1.H.
43M	01	JUDGE OR READ 1" 1/16" OR	101-513-1160	I	1.D.

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1/4" DISTANCES FROM RULER

43M	01	MEASURE 1/2" DISTANCE FROM RULER	101-513-1161	I	1.A.
43M	01	READ 1" FROM RULER	101-513-1162	I	2.B.1.
43M	01	JUDGE 1" DISTANCE FROM GIVEN POINT	101-513-1162	I	2.B.5.
43M	01	READ 2 & 1/2" 5" 1/2" MARKS OFF RULER	101-513-1163	I	1.B.
43M	01	ESTIMATE 4 INCHES OF THREAD	101-513-1204	I	1.C.1.D.
43M	01	ESTIMATE DISTANCE OF 1/16" WHILE ADJUSTING NEEDLE BAR	101-513-1204	I	1.D.2.B.

Knowledge statements from parent tasks that are replicated in the reported MOS are included in the Knowledge Statement report lists. Therefore, MOS numbers shown on the report in the column headed "MOS" may differ from the MOS number shown in the report title. Because the TPA-3 forms were being written while the taxonomy was being developed, some knowledge statements do not have pc codes. PC codes taken from earlier versions of the taxonomy and entered on TPA-3 forms were converted to the new (Apr 82) taxonomy codes. The conversion allowed for the following pc codes: 45 - motor skills; 47 - equipment use; 48 - other. TPA-3 reports are available for the following MOSs: 05B 05C 13F 15D 16D 16E 26L 26Q 31M 43M 44B 44E 57E 61B 63H 63W 67U 68G 71D 71L 71Q 75B 76X 91B 96B 05B 05C 13F 15D 16D 16E 26L 26Q 31M 43M 44B 44E 61B 63H 63W 67U 68G 71D 71L 71Q 75B 76X 91B 96B.

Description of Errata Report

The Errata report lists all corrections to the ETAP reports that were made after a home-office review of the data collected at the training and proponent schools. An Errata report for MOS 11B appears below:

CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

ERRATA
MOS: 11B   TASK NUMBER: 071-312-3005

TPA-1
EQUIPMENT
   CLEANER, LUBRICANT, PRESERVATIVE (CLP) MIL-L-63460. THIS
   EQUIPMENT IS USED FOR ALL WEPONS (WPNS) SYSTEMS AND HAS
   REPLACED ALL OTHER CLEANERS, LUBRICANTS AND PRESERVATIONS.

TPA-2
PAGE NO.   STEP NO.   LINE   RECOMMENDED CHANGES AND REASONS
   3   2.A.2.G-H   -- BETWEEN STEPS 2.A.2.G AND 2.A.2.H ADD:
                           PLACE UNSOAKED CLEAN PATCH THROUGH EYELET
                           AND REPEAT STEP 2.A.2.E UNTIL NO MORE
                           RESIDUE CAN BE REMOVED.

         CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

                       ERRATA
         MOS: 11B   TASK NUMBER: 071-312-3009

_____

TPA-2
PAGE NO.   STEP NO.   LINE   RECOMMENDED CHANGES AND REASONS
            1.B.1.B.1   -- DELETE. YOU DO NOT TURN WINDAGE KNOB OR
                           ANYTHING UNTIL YOU HAVE FIRED 3 ROUNDS TO
                           DETERMINE WHICH DIRECTION OR IF THERE IS A
                           NEED FOR A CHANGE. ADD: FIRE 3 ROUNDS
                           (ONE AT A TIME) THEN MAKE ADJUSTMENTS IF THEY
                           ARE NEEDED.

   5   2.I.2.A   -- CHANGE TO READ: IF SHOT GROUP WILL NOT FIT
                           WITHIN A 4 CM CIRCLE ON THE TARGET, MAKE
                           SIGHT ADJUSTMENTS.

                  Description of a TPA-X Report

         When a task was analyzed using the principle
   transfer technique, a TPA-X report was generated. This
   technique was designed to identify the underlying
   principles in task steps. The following is an example of
   the TPA-X report:

         CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

         MOS: 71Q   TASK NUMBER: 214-176-1408
                        TPA-X

   STEP NUMBER   PRINCIPLE STATEMENT   PAGE   1

_____

   1.A.   PURPOSE OF REVIEW
   1. DERIVE FROM REVIEW/EXAMINATION OF MATERIAL A SENSE OF THE
       FOCUS OF THE NEWSWORTHY EVENT, THE CENTRAL PERSONS/GROUPS
       INVOLVED, THE ROLE(S)/ACTIVITIES OF CENTRAL PERSONS/GROUPS, ETC

   1.A.   PURPOSE OF REVIEW
   2. DERIVE FROM REVIEW SOME LEADS FOR RESEARCHING THE ASSIGNMENT
       (E.G., WHO TO TALK, WHAT MATERIALS TO EXAMINE, PLACES TO VISIT,
       ETC)

   1.A. MAKE NOTES

1.   DO NOT RELY ON MEMORY FOR RETAINING ESSENTIAL INFORMATION

1.A. MAKE NOTES
2.   USE WHATEVER NOTE TAKING STYLE BEST FITS OWN WORK PATTERNS
     AND NEEDS

1.C. KNOWLEDGEABLE SOURCE
RECOGNIZE THAT THE MOST KNOWLEDGEABLE SOURCE WILL ORDINARILY BE A
PERSON CLOSELY INVOLVED WITH MAKING ARRANGEMENTS FOR THE EVENT
(OR) THE HIGHEST AUTHORITY LEVEL THAT HAS A PERSONAL STAKE/VESTED
INTEREST IN THE EVENT

3.A. EVENTS WARRANTS COVERAGE
ASSESS IMPORTANCE OF THE EVENT BY CONSIDERING SUCH FACTORS AS:
PROMINENCE OF PARTICIPANTS, TIMELINESS AND EMOTIONS INTENSITY OF
THE EVENT, DESIRES OF HIGHER AUTHORITY WITH RESPECT TO COVERAGE,
PAY-OFF BALANCE BETWEEN ENHANCED QUALITY

3.A. EVENTS WARRENTS COVERAGE
(CONTINUE) OF COVERAGE VS DIFFICULTY/EASE OF OBTAINING ADDITIONAL
PHOTOGRAPHERS, ETC

3.A. EVENT/COVERAGE REQUIREMENTS
1.   IF SIMULTANEOUS BUT SEPARATE ASPECTS OF EVENT MUST BE
COVERED, REQUEST ASSISTANCE

3.A. EVENT/COVERAGE REQUIREMENTS
2. IF DIFFERING PERSPECTIVES OF SAME ASPECT ARE DESIRED, REQUEST
ASSISTANCE

3.A. EVENT/COVERAGE REQUIREMENTS
3.   IF SIGNIFICANT FEATURES OF EVENT ARE WIDELY SEPARATED (AND)
TIMING AND/OR PHYSICAL CONTRAINTS (E.G., UNWIELDY EQUIPMENT,
NON-AVAILABILITY OF TRANSPORTATION, ETC) PRECLUDE ONE PERSON
COVERAGE, REQUEST ASSISTANCE

        TPA-X reports are available for only three MOSs:
     19D, 19E, and 71Q.

  Description of the Complete Task Statement Report

        The Complete Task Statement report is a listing of
   all two-line task statements for all the tasks among all
   MOSs. The information is taken from the task statements
   as they appear on the TPA-1 reports. An example of this
   report follows:

            MOS BASELINE SKILLS PROJECT   PAGE   4
            COMPLETE TASK STATEMENT LIST   DATE PRINTED:

            COMPLETE TASK STATEMENT LIST

```
MOS    TASK NO.        STATEMENT
93J    011-143-1445    PERFORM EQUIPMENT CHECKS

93J    011-143-1600    DEPLOY THE FLIGHT COORDINATION CENTRAL,
                       AN/TSC-61B

93J    011-143-2005    PERFORM THE INITIAL ORIENTATION OF RADAR SET,
                       AN/TPN-18

93J    011-144-1016    DECODE TELETYPE SEQUENCE REPORTS

93J    011-144-1017    DECODE METEOROLOGICAL TERMINAL AVIATION
                       REPORTS (METAR)

71P    011-144-1021    USE INTERPHONE PROCEDURES
                       MOS: 93J

71P    011-144-1022    DECODE MILITARY AIRCRAFT DESIGNATION, SERVICE,
                       AND MISSION SYMBOLS
                       MOS:93J

71P    011-144-1042    LOCATE AERONAUTICAL DATA IN DOD FLIGHT
                       PUBLICATIONS
                       MOS:93J

93J    011-144-1500    OPERATE AND MAINTAIN A 1.5-KW GENERATOR

93J    011-145-1017    REQUEST, RECORD, AND DISSEMINATE PILOT REPORTS
                       (PIREP)

93J    011-145-1022    USE RADIO COMMUNICATIONS PROCEDURES

93J    011-145-1023    INTERPRET AND RELAY ITEMS REQUIRING NOTICE
                       TO AIRMEN (NOTAM)

93J    011-145-1024    ISSUE AIRPORT CONDITION INFORMATION

93J    011-145-1026    ISSUE AIR TRAFFIC CONTROL (ATC) ADVISORIES

93J    011-145-1030    POST FLIGHT PROGRESS SLIPS

93J    011-145-1041    CONTROL INSTRUMENT FLIGHT RULES (IFR) ARRIVALS
                       (NON-RADAR)
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Description of the MOS Task Statement Report

This report provides the information found in the
preceding Complete Task Statement report, except that
tasks are organized by the MOSs in which they were
analyzed. Data in these reports are taken from the
two-line task statement that appears on the TPA-1 report.
An example appears below:

MOS BASELINE SKILLS PROJECT   PAGE   1

MOS	TASK NO.	BSEP	STATEMENT
11B	051-192-1002	I	INSTALL THE M16A1 BOUNDING ANTIPERSONNEL MINE (WITH/WITHOUT TRIPWIRE) MOS: 11C 11H 11M 12B 19D 19E
11B	051-192-1008	I	INSTALL THE M21 METALLIC ANTITANK (AT) MINE MOS: 11C 11H 11M 12B 19D 19E
11B	051-192-1012	I	DISARM THE M16A1 BOUNDING ANTIPERSONNEL MINE EQUIPPED WITH/WITHOUT TRIPWIRES MOS: 11C 11H 11M 19D 19E
11B	051-192-1018	I	DISARM THE M21 METALLIC ANTITANK (AT) MINE MOS: 11C 11H 11M 19D 19E
11B	051-192-1021	I	LOCATE MINES BY VISUAL MEANS MOS: 11C 11H 11M 19D 19E 54E 95B
11B	051-192-1022	I	LOCATE MINES BY PROBING MOS: 11C 11H 11M 12B 19D 19E 54E 95B
11B	051-193-1004	I	CONSTRUCT AN ELECTRIC (INITIATION) DETONATING ASSEMBLY MOS: 11H 11M 12B 19D
11B	061-283-6003	I	CALL FOR/ADJUST INDIRECT FIRE MOS: 11C 11H 11M 17K 19D 19E 54E 95B
11B	071-311-2006	I	USE LIMITED VISIBILITY FIRING TECHNIQUE WITH THE M16A1 RIFLE MOS: 11C 11M 54E 95B
11B	071-311-2101	I	PERFORM OPERATOR MAINTENANCE ON M203 GRENADE LAUNCHER AND AMMUNITION MOS: 11C 11M 13F 15D 19D 54E 95B
11B	071-311-2103	I	ZERO AN M203 GRENADE LAUNCHER MOS: 11C 11M 19D 54E 95B
11B	071-311-2105	I	USE LIMITED VISIBILITY FIRING TECHNIQUE WITH THE M203 GRENADE LAUNCHER MOS: 11C 11M 54E
11B	071-312-3003	I	LAY M60 MACHINEGUN USING FIELD EXPEDIENTS MOS: 11M 54E 95B
11B	071-312-3004	I	CONSTRUCT AN M60 MACHINEGUN POSITION

MOS: 11M 15D 15E 54E 95B

11B 071-312-3005 I PERFORM OPERATOR MAINTENANCE ON AN M60
                     MACHINEGUN AND AMMUNITION
                     MOS: 11M 13B 15D 15E 19D 54E 95B

11B 071-312-3006 I FIELD ZERO AN M60 MACHINEGUN
                     MOS: 11M 19D 54E

   All MOSs are included.

   Description of the Complete Subtask Report

      These reports are listings of the subtasks of all
   the tasks analyzed. They are headed by the subtask
   number and title, and include performance statements and
   p c codes, a listing of the MOSs and tasks, and BSEP
   designations that reference the subtask.

                    MOS BASELINE SKILLS PROJECT
SUBTASK: F001   CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:

                    COMPLETE SUBTASK   PAGE 1
                    PREREQUISITE
STEP NUMBER   COMPETENCIES STEP STATEMENT

STEP NUMBER	PREREQUISITE COMPETENCIES	STEP STATEMENT
SUBTASK F001 -		NATIONAL STOCK NUMBER, ALL INFORMATION IN USE
S1.		DETERMINE LEVEL OF MAINTENANCE AUTHORIZED TO COMPLETE REPAIRS.
S1.A.		LOCATE DATA ON PART TO BE REPLACED.
S1.A.1.		IF NATIONAL STOCK NUMBER (NSN) OR PART NUMBER IS NOT KNOWN.
S1.A.1.A.	27B	LOCATE NAME OF PART IN PARTS MANUAL.
S1.A.1.B.		USE THE ILLUSTRATION FIGURE NUMBER TO LOCATE THE FIGURE.
S1.A.1.C.	29A	IDENTIFY THE ITEM NUMBER BY AN ARROW POINTING TO THE PART.
S1.A.1.C.1.	29C	IDENTIFY PARTS (ILLUSTRATIONS) FROM EXPLODED VIEWS OF ASSEMBLIES&SUB-ASSEMBLIES.
S1.A.1.C.2.	29A	IDENTIFY ALL PARTS WITH CALLOUT NUMBERS.
S1.A.1.C.2.A.	29A	ARRANGE NUMBERS IN A CLOCKWISE SEQUENCE.
S1.A.1.D.	28B	USE THE FIGURE NUMBER & ITEM NUMBER TO IDENTIFY THE NATIONAL STOCK NUMBER &

		PART NUMBER INDEX (SEC V).
S1.A.1.D.1.	28B	CROSS-REFERENCE EACH ILLUSTRATION FIGURE, ITEM NUMBER TO THE NATIONAL STOCK.
S1.A.1.E.	28B	OBTAIN STOCK (PART) FIGURE, & ITEM NUMBER, LOCATE THE SOURCE, MAINTENANCE, & RECOVERABILITY (SMR) CODE FORMAT (5 POSITIONS, SEC 2).
S1.A.1.E.1.	28B 01E 41H	DETERMINE SOURCE CODE 1ST & 2ND POSITIONS.
S1.A.1.E.1.A.		INDICATE MANNER OF ACQUIRING SUPPORT ITEMS FOR MAINTENANCE, REPAIR OR OVERHAUL.
S1.A.1.E.2.	28B 01E 41H	DETERMINE MAINTENANCE CODE 3RD & 4TH POSITIONS.
S1.A.1.E.2.A.		INDICATE IN 3RD POSITION AS LOWEST MAINTENANCE LEVEL AUTHORIZED TO REMOVE, REPLACE & USE.
S1.A.1.E.2.B.		INDICATE IN 4TH POSITION WHETHER ITEM IS TO BE REPAIRED & THE LEVEL AT WHICH THE REPAIR WILL BE MADE.
S1.A.1.E.3.	28B 01E 41H	DETERMINE RECOVERABILITY.
S1.A.1.E.3.A.		INDICATE DISPOSITION ACTION ON UNSERVICE ITEMS.
S1.A.2.		WHEN NATIONAL STOCK NUMBER OR PART NUMBER IS KNOWN.
S1.A.2.A.	27C	USE THE INDEX OF NATIONAL STOCK NO. & PART NUMBER. TO FIND THE SPECIFIC NSN OF PART NUMBER.

Description of the Subtasks List Report

The Subtask List report is a record of the subtasks
analyzed in the specified MOSs. These reports include
the subtask number, title, first line of the subtask,
step numbers, where it was originally analyzed, and the
task numbers that reference the subtask. The following
is an example of the report:

        MOS BASELINE SKILLS PROJECT
        CONTRACT NO. DABT60-81-C-0017   DATE PRINTED:
                                               05/10/83

F006 FORM COMPLETION DA FORM 2404   1-2   17K 3013411309
          551-721-2300

        The MOSs included in these reports include: 05G 13B
    13F 15E 16H 17B 17C 17K 19D 19E 24C 24H 27E 31J 31N 31V
    32H 33S 36C 36K 45B 45K 52C 52D 54E 55B 55D 57H 62B 62E
    63G 63N 64C 67G 67N 67T 67V 68D 68F 68H 68J 72E 76P 93J
    95B.

TABLE 1: Prerequisite Baseline Skills

1   NUMBERING AND COUNTING

   1A MATCH NUMERALS WITH WORD NAMES AND MODELS

   1B WRITE NUMERALS ONE THROUGH N IN SEQUENTIAL ORDER FROM ANY
      STARTING POINT

   1C STATE WHAT NUMERAL COMES AFTER, BEFORE, OR BETWEEN ANY TWO
      GIVEN NUMERALS

   1D SELECT THE NUMERAL WHICH IS GREATER/LESSER FROM A SET OF
      NUMERALS

   1E IDENTIFY AN OBJECT WITH A SPECIFIED ORDINAL POSITION

   1F WRITE OR STATE THE PLACE VALUE OF A PARTICULAR DIGIT, WHOLE
      OR DECIMAL NO.

   1G ROUND OFF A NUMBER TO A SPECIFIED PLACE, WHOLE OR DECIMAL

   1H COUNT BY ONES, TWOS, FIVES, TENS, ETC., BACKWARD OR FORWARD
      (SKIP COUNTING)

   1I MATCH NUMBERS WITH POINTS OR INTERVALS ON A NUMBER LINE
      (POS OR NEG VALUES)

2   LINEAR, WEIGHT, AND VOLUME MEASURES

   2A NAME THE MARKINGS ON A LINEAR SCALE

   2B DIFFERENTIATE UNITS OF MEASURE & EQUIVALENTS IN THE
      ENGLISH & METRIC SYSTEM

   2C USE A RULER, YARDSTICK, METER STICK OR SCALE TO MEASURE
      LENGTH OR DISTANCE

   2D IDENTIFY MEASURES OF OUNCE, POUND, GRAM

   2E IDENTIFY MEASURES OF PINTS, QUARTS, GALLONS, LITERS

   2F USE A SCALE WHICH IS NOT NUMERICALLY CALIBRATED

   2G ESTIMATE MEASURES OF VARYING LENGTHS, DIMENSIONS OR WEIGHTS

3   DEGREE MEASURES

   3A IDENTIFY DEGREE OR MIL AS A UNIT IN DETERMINING DIRECTION,
      DISTANCE OR TEMP

   3B ESTIMATE THE MEASURE OF A GIVEN ANGLE NOT GREATER THAN 180
      DEGREES

3C INTERPRET BEARINGS,AZIMUTH ETC., IN WHICH ANGLES RANGE 0-360 DEG/0-6400 MILS

4 TIME-TELLING MEASURES

4A USE A 24-HOUR OR DIGITAL CLOCK TO TELL TIME

4B NAME INTERVALS AND TELL TIME IN HOURS, MINUTES, AND SECONDS

4C ESTIMATE TIME IN SECONDS, MINUTES, AND PARTS OF AN HOUR

4D IDENTIFY CALENDAR UNITS AND ARRANGE THEM IN JULIAN STYLE

4E CONVERT TIME INTO HOURS AND TENTHS OF HOURS

4F COMPUTE TIME - USE GREENWICH MEAN TIME (GMT) TO ESTABLISH ZONES & DISTANCES

5 GAUGE MEASURES

5A IDENTIFY THE UNIT OF MEASUREMENT FOUND ON AN INSTRUMENT

5B INTERPRET THE NUMBER, WORD, SYMBOL FROM A DISPLAY READ-OUT

5C RECOGNIZE A "READING" FROM A GAUGE WITH COLOR DIVISIONS

5D RECOGNIZE POSITIVE (+) AND NEGATIVE (-) DEMARCATION ON A SCALE

5E SELECT BAND(S) FROM A MULTI-SCALE GAUGE

5F MATCH A GAUGE READING TO A SPECIFICATION USING NUMBERED, LABELED INTERVALS

5G INTERPRET GAUGE READINGS FROM AN UNNUMBERED/UNMARKED INTERVAL

5H INTERPRET A GAUGE READING WHICH IS FLUCTUATING OR MOMENTARILYY SUSTAINED

5I MATCH SPECS OF REQUIRED MEASURES BY MANIPULATION, ALIGNMENT OR MAINTENANCE

6 SPATIAL

6A IDENTIFY DIRECTIONS THAT TOOLS, HARDWARE, OR COMPONENTS MAY BE MOVED

6B MANIPULATE OBJECTS TO ALIGN, MATCH, MATE, BE PARALLEL, PERPENDICULAR, ANGLED

6C INTERPRET SPATIAL RELATIONSHIPS OF FIGURES AND OBJECTS FROM 2-D REP

6D RELATE GEOMETRIC SYMBOLS AND GRAPHIC REPRESENTATIONS TO
   ACTUAL SYSTEMS, ETC

7 LINES

   7A IDENTIFY AND NAME POINTS, LINES, RAYS, AND SEGMENTS

   7B IDENTIFY INTERSECTING LINES, PARALLEL LINES, AND LINE
      SEGMENTS

   7C DEFINE AND IDENTIFY PERPENDICULAR LINES

   7D IDENTIFY CONGRUENT SEGMENTS

8 PLANES

   8A IDENTIFY AND NAME PLANE GEOMETRIC FIGURES

   8B LIST THE CHARACTERISTICS OF GEOMETRIC FIGURES

   8C CLASSIFY FIGURES ACCORDING TO THE NUMBER OR MEASURE OF THEIR
      THEIR SIDES OR ANGLES

   8D IDENTIFY FIGURES WHICH POSSESS SIMILARITIES

   8E IDENTIFY FIGURES WHICH MAY BE PARALLEL, PERPENDICULAR OR
      CONGRUENT

9 ANGLES AND TRIANGLES

   9A IDENTIFY, NAME AND SYMBOLIZE THE DIFFERENT KINDS OF ANGLES A
      AND TRIANGLES

   9B IDENTIFY VERTICAL, ADJACENT, COMPLEMENTARY OR SUPPLEMENTARY
      ANGLES

   9C CLASSIFY TRIANGLES ACCORDING TO THEIR SIDES OR ANGLE-SIZE

   9D IDENTIFY ALTITUDES AND MEDIANS OF TRIANGLES OR THE BISECTOR
      OF AN ANGLE

   9E NAME AN ANGLE BY USING LETTERS, A NUMBER, OR A SINGLE
      LETTER

10 SOLIDS

   10A RECOGNIZE AND MATCH THE NAMES OF SOLIDS WITH THEIR CORRESPON
       CORRESPONDING FIGURES

11 TERMINOLOGY

   11A IDENTIFY TECHNICAL WORDS ASSOCIATED WITH GEOMETRIC FIGURES

11B INTERPRET MEANING OF TERMS DERIVED FROM SPATIAL ORIENTATION

12 ADDITION AND SUBTRACTION

12A ADD OR SUBTRACT WHOLE NUMBERS, WITHOUT CARRYING OR BORROWING

12B ADD OR SUBTRACT WHOLE NUMBERS, CARRYING AND BORROWING

12C ADD & SUBTRACT, BORROWING & CARRYING WITH MIXED NUMBERS (WHOLE AND DECIMAL)

12D ADD OR SUBTRACT POSITIVE & NEGATIVE NUMBERS USING A NUMBER LINE FOR SOLUTION

12E ADD OR SUBTRACT TO FIND CORRECT TIME (24 HR. CLOCK) USING HOURS OR MINUTES

12F ADD OR SUBTRACT VARIOUS INCREMENTS ON GAUGES, DIALS, OTHER MEAS. INSTRUMENTS

12G ADD OR SUBTRACT TIME,LINEAR,DRY,LIQUID OR DEGREE MEASURES REQ. REGROUPING

12H ESTIMATE A SUM OR DIFFERENCE

13 MULTIPLICATION AND DIVISION

13A MULTIPLY AND DIVIDE WHOLE NUMBERS

13B MULTIPLY AND DIVIDE MIXED NUMBERS (WHOLE AND DECIMALS)

13C DIVIDE A NUMBER WITH DECIMALS IN BOTH DIVISOR AND DIVIDEND

13D MULT & DIV INTEGERS, BOTH POSITIVE & NEGATIVE & ASSIGN PROPER SIGN TO RESULT

13E ESTIMATE A PRODUCT OR QUOTIENT

14 FRACTIONS/DECIMALS

14A SUBDIVIDE WHOLE OBJECTS OR A SET OF OBJECTS INTO 1/2'S, 1/3'S, 1/4'S, 1/8'S

14B REDUCE FRACTIONS TO LOWEST TERMS

14C CONVERT FRACT. (PROPER & IMPROPER) TO DEC. EQUIV & VICE VERSA USING TABLE

14D COMPUTE EQUIVALENT VALUE OF FRACT.,DEC.,PERCENTS,& MIXED NOS. TO LOWEST TERMS

14E ADD AND SUBTRACT FRACTIONS, WITH SAME OR DIFFERENT DENOMINATIONS

14F MULTIPLY AND DIVIDE FRACTIONS WITH AND WITHOUT WHOLE NUMBERS

14G ESTIMATE A FRACTIONAL SUM, PRODUCT, OR QUOTIENT

15 GEOMETRY

15A DRAW GEOMETRIC FIGURES, PLANE AND SOLID

15B MATCH GEOMETRIC FIGURES WITH WORD NAMES, EQUIVALENT MEASURES

15C LABEL GEOMETRIC FIGURES USING MATHEMATICAL AND CHARACTERISTIC DESIGNATORS

15D USE A PROTRACTOR TO MEASURE ANGLES, MAKE GEOMETRICAL CONSTRUCTIONS

15E CONSTRUCT PERPENDICULAR ON A LINE SEGMENT, BISECTOR OF AN ANGLE

15F COMPUTE THE PERIMETER AND AREA OF ANY FIGURE

15G COMPUTE THE CIRCUMFERENCE AND AREA OF A CIRCLE

15H COMPUTE THE AREA AND VOLUME OF ANY SOLID FIGURE

15I USE FORMULAS IN SOLVING PROBLEMS INVOLVING GEOMETRIC FIGURES

15J SOLVE PROBLEMS & INTERPRET SPATIAL RELATIONS OF FIGURES, ETC FROM 2-D REP

16 COMBINATION OF PROCESSES

16A IDENTIFY MEDIAN AND MODE

16B COMPUTE AVERAGES

16C SOLVE PROBLEMS COMBINING ALL PROCESSES USING WHOLE, MIXED NOS. AND FRACTIONS

16D SOLVE PROBLEMS, COMBINING ALL PROCESSES, INVOLVING UNITS OF MEASUREMENT

16E INTERPRET INFO FROM CHARTS,NUMBER LINES,SCALES & GRAPHS TO SOLVE ARITH PROB

16F SOLVE CONVERSION PROBLEMS OF LINEAR, LIQUID, WEIGHT AND TEMPERATURE MEASURES

16G SOLVE PROBLEMS INVOLVING RATIO AND PROPORTION

16H SOLVE WORD PROBLEMS WHERE ANY MATHEMATICAL PROCESS MAY OCCUR

17 GRAPHING IN THE COORDINATE PLANE

17A IDENTIFY COORDINATES OF A POINT IN ANY GRID SYSTEM

17B IDENTIFY POINTS ON A LINE GRAPH

17C MATCH A GRAPH WITH ITS EQUATION

18 ALGEBRA

18A SOLVE SIMPLE ALGEBRAIC EQUATIONS WITH ONE UNKNOWN

18B RECOGNIZE AND DERIVE EQUIVALENT ALGEBRAIC EXPRESSIONS

18C EVALUATE POWERS AND ESTIMATE ROOTS

19 TRIGONOMETRY

19A USE TABLES OF TRIGONOMETRIC FUNCTIONS

19B USE TABLES OF LOGARITHMS TO SOLVE PROBLEMS

19C SOLVE GEOMETRIC PROBLEMS USING TRIGONOMETRIC FUNCTIONS

19D USE TRIGONOMETRIC RATIOS TO SOLVE PROBLEMS

25 PROCEDURAL DIRECTIONS

25A IDENTIFY FACTUAL DETAILS OR SPECIFICATIONS FOUND WITHIN A STATEMENT

25B SELECT PARTS OF TEXT AND VISUAL MATERIALS TO COMPLETE A TASK ACTIVITY

25C FOLLOW HIGHLY-DETAILED DIRECTIONS TO ACCOMPLISH SEQUENCE OF TASK ACTIVITIES

25D DETERMINE THE ESSENTIAL MESSAGE OF A PARAGRAPH OR SECTION OF WRITTEN MAT'L

25E INFER FROM A WRITTEN SOURCE, WHERE INFO IS NOT EXPLICIT, TO MAKE A DECISION

25F SYNTHESIZE INFO FROM WRITTEN SOURCES CONTRIBUTING TO COMPLETION OF TASK

26 VOCABULARY

26A RECOGNIZE COMMON WORDS AND THEIR MEANINGS

26B RECOGNIZE TASK-RELATED WORDS WITH TECHNICAL MEANINGS

26C IDENTIFY THE CORRECT MEANING OF A WORD FROM THE CONTEXT OF A SENTENCE

26D RECOGNIZE THE MEANING OF COMMON CONTRACTIONS, ABBREVIATIONS

AND ACRONYMS

26E DETERMINE MEANING OF FIG, IDIOM, TECH TERMS USING CONTEXT
CLUES, REFERENCES

27 REFERENCE SKILLS

27A LOCATE TM, FM, OR ANY RELATED SOURCE DOCUMENT BY CODE NUMBER
AND TITLE

27B ALPHABETIZE WORDS OR TOPICS TO LOCATE INFORMATION

27C USE TABLE OF CONTENTS, INDEX, HEADINGS, APPENDIX & GLOSSARY
TO LOCATE INFO

27D LOCATE PAGE, TITLE, PARA, FIG, OR CHARTS TO ANSWER QUESTION/
SOLVE PROBLEM

27E DETERMINE, AFTER SCANNING OR SKIM-READING, WHETHER THE
INFO IS RELEVENT

27F XREF W/IN & ACROSS SOURCE DOCUMENTS, SELECT INFO NEEDED TO
PERFORM ROUTINE

27G ORGANIZE INFO FROM MULTIPLE SOURCES INTO A SEQUENCED SERIES
OF EVENTS

28 TABLES/CHARTS

28A OBTAIN A FACT OR SPECIFICATION FROM A 2-COLUMN TABLE OR
CHART TO FIND INFO

28B OBTAIN A FACT OR SPEC FROM AN INTERSECTION OF A ROW BY
COLUMN TABLE OR CHART

28C USE COMPLEX TABLE/CHART REQUIRING XREF W/IN CHART OR IN
COMBW/OUTSIDE TEXT

28D APPLY INFO FROM TABLES & CHARTS TO LOCATE MALFUNCTIONS/
SELECT ACTION COURSE

29 ILLUSTRATIONS

29A IDENTIFY DETAILS, LABELS, NUMBERS, AND PARTS FROM AN
ILLUSTRATION OR PICTURE

29B IDENTIFY PARTS OR DETAILS ACCORDING TO A KEY OR LEGEND

29C INTERPRET A CROSS-SECTIONAL DRAWING OF AN OBJECT FOR
ASSEMBLY OR DISASSEMBLY

29D INTERPRET 3-D PROJ OR EXPLODED VIEW FOR ASSEMBLY OR POSITION
IN SYS/SUBSYS

29E FOLLOW ILLUSTRATIONS OR PHOTOGRAPHS, ARRANGED IN A
    SEQUENTIAL ORDER,AS GUIDE

29F INTEGRATE INFORMATION FROM VARIOUS SOURCES TO SELECT A
    COURSE OF ACTION

.30 FLOW CHARTS

30A USE A SIMPLE LINEAR PATH OR ORGNIZATIONAL CHART TO LIST
    EVENTS IN SEQUENCE

30B USE A LINEAR PATH OF A FLOW CHART TO PROVIDE VISUAL AND
    TEXTUAL DIRECTIONS

30C TRANSLATE THE SIGNIFICANCE OF THE SYMBOLS INTO PHYSICAL
    ACTIVITIES

31 SCHEMATICS

31A ISOLATE EACH MAJOR SECTION OR ENTITY PRESENTED IN A
    SCHEMATIC DIAGRAM

31B IDENTIFY THE COMPONENTS WITHIN EACH ENTITY

31C TRACE CONNECTIONS IN AN INTEGRATED CIRCUIT FROM ORIGIN TO
    ANOTHER POINT

31D ISOLATE A PROBLEM COMPONENT IN A SCHEMATIC & TRACE IT TO
    CAUSING COMPONENTS

31E INTERPRET SYMBOLS TO INDICATE DIRECTION OF FLOW, TEST
    POINTS, COMPONENTS,ETC

32 FORMS

32A LOCATE THE BLOCK ON A FORM TO ENTER THE APPROPRIATE
    INFORMATION

32B TRANSFER A NO., DATE, ETC. FROM EQUIP. OR WRITTEN SOURCE TO
    SECTION OF FORM

32C WRITE NAME OF ORG., PERSONNEL, DISPOSITION, NOMENCLATURE ETC
    IN FORM SECTION

32D WRITE A DESCRIPTIVE ACCOUNT OF AN ACTIVITY OR TRANSACTION
    PERFORMED

32E USE A COMPLETED FORM TO LOCATE OR COMPARE INFORMATION

33 NOTE-TAKING

33A DISTINGUISH BETWEEN ESSENTIAL AND NON-ESSENTIAL DETAILS
    WHILE NOTE-TAKING

33B RECORD DETAILS W/O MISINTERPRETING INTENT OF WRITTEN
   MATERIAL OR INTERVIEW

33C REWRITE ALL RECORDED DETAILS IN SENTENCE FORM

33D ORGANIZE ALL SENTENCES INTO PARAGRAPHS

34 OUTLINING (TOPIC OR SENTENCE)

   34A DISTINGUISH BETWEEN MAJOR AND SUBORDINATE TOPICS

   34B GENERATE TITLES FOR EACH MAJOR TOPIC SELECTED

   34C USE PHRASES/SENTENCES TO PROVIDE SUBORDINATE DETAILS FOR
      EACH MAJOR TOPIC

   34D ALTERNATE, INDENT NUMBERS AND LETTERS TO ESTABLISH A
      HIERARCHY

35 REPORT WRITING

   35A STATE THE INTENT OR OBJECTIVE(S) OF THE REPORT

   35B DESCRIBE THE PARAMETERS OF THE EVENT OR SITUATION

   35C DISTINGUISH BETWEEN RELEVANT AND IRRELEVANT DETAILS

   35D SEQUENCE EVENTS IN THE ORDER THEY HAVE OCCURRED

   35E STATE GENERAL IMPRESSIONS OF EVENTS DESCRIBED

   35F SELECT EXAMPLES THAT WILL CLARIFY MAJOR ISSUES PRESENTED IN
      THE REPORT

   35G EXAMINE OPPOSING POINTS OF VIEW IN THE REPORT

   35H SUMMARIZE THE MAJOR POINTS DEVELOPED IN THE REPORT

   35I JUSTIFY AN ACTION TAKEN AND GIVE REASONS FOR REJECTING
      ALTERNATIVES

36 EDITING

   36A SPELL FREQUENTLY USED WORDS CORRECTLY

   36B SPELL TASK-RELATED WORDS CORRECTLY

   36C IDENTIFY WORDS THAT NEED TO BE CAPITALIZED

   36D CORRECT ALL MISSPELLED WORDS WITH OR WITHOUT THE USE OF A
      REFERENCE SOURCE

   36E APPLY ALL RULES FOR END MARKS, COMMAS, AND APOSTROPHES

36F APPLY COMMON RULES OF GRAMMAR

36G REWRITE PARAS: STATE MAIN IDEA IN FIRST SENTENCE, RESTRUCTURE FOR COHERENCE

36H APPRAISE AN ENTIRE WRITTEN COMMUNICATION & MAKE ADJ. TO IMPROVE CLARITY

37 TYPE

37A INDIVIDUAL - A PERSON WORKING ON A TASK AND COMMMUNICATING WITH ANOTHER

37B INSTRUCTION- COMMUNICATION BETWEEN INSTR. & INDIVID. OR GROUP TO PASS FACTS

37C TUTOR-INTERACTION BETWEEN TWO PERSONS - ONE INSTRUCTING, ONE DOING THE TASK

37D PEER GROUP(LESS THAN 10)- ACTIVITY WHERE ONE PERSON ASSUMES LEADERSHIP ROLE

37E INTERVIEW - COMMUNICATING W/ANOTHER TO USE THE INFORMATION IN A TASK

37F BRIEFING - COMMUNICATING FINAL INSTRUCTIONS OR GIVING AN ACCOUNT IN SUMMARY

37G COUNSEL - COMMUNICATING TO EXCHANGE IDEAS OR OPINIONS TO RECOMMEND, ADVISE

37H COMMAND - COMMUNICATE AN ORDER OR ACTION TO BE TAKEN

38 CHARACTERISTICS

38A ENUNCIATE CLEARLY, USING THE PROPER RATE OF SPEECH

38B USE TECHNICAL VOCABULARY SUITABLE TO THE TASK AND LEVEL OF THE PERSON

38C DETERMINE THE APPROPRIATE AMOUNT OF INFORMATION TO COMMUNICATE

38D INTERPRET FIGURATIVE OR IDIOMATIC LANGUAGE BY REFERENCE TO USE IN CONTEXT

38E FOLLOW HIGHLY DETAILED, STEP-BY-STEP DIRECTIONS

38F SOLICIT FEEDBACK TO CONFIRM THE ACCURATE RECEPTION OF THE COMMUNICATION

38G RECOGNIZE WHEN A LOW-KEY, INFORMAL DIALOGUE IS SUITABLE

38H RECOGNIZE WHEN DIRECT VERBAL COMMANDS ARE NECESSARY

38I RECOGNIZE WHEN A SERIES OF VERBAL INTERACTIONS IS REQUIRED
TO COORDINATE

38J RECOGNIZE WHEN SITUATION WILL REQUIRE A STRUCTURED METHOD OF

PRESENTATION

39 BARRIERS

39A RECOGNIZE NEED FOR CLEAR CONCISE DIRECTIONS: AVOID WORD-
MEANING DIFFERENCES

39B RECOGNIZE PERSONALITY FACTORS & INTER-PERSONAL RELATIONSHIPS
THAT MAY EXIST

39C RECOGNIZE FEEDBACK AIDS EFFECTIVE COMMUNICATION & INCREASES
TASK COMPETENCE

40 PRECAUTIONS

40A USE COMMON KNOWLEDGE TO AVOID HAZARDS TO PREVENT INJURY TO
SELF OR EQUIP.

40B APPLY PREVENTIVE MEASURES PRIOR TO TASK: MINIMIZE SAFETY
OR SECURITY PROBLEMS

40C SELECT AN APPROPRIATE COURSE OF ACTION IN THE EVENT OF AN
EMERGENCY

41 RECOGNITION

41A IDENTIFY SIMILARITIES AND DIFFERENCES BETWEEN AND AMONG
OBLECTS

41B USE BODY LANGUAGE (MOTIONS, GESTURES, POSTURES) TO
COMMUNICATE OR SIGNAL

41C DETERMINE THE PRESENCE OF A DEFECT OR EXTENT OF DAMAGE

41D MATCH OBJECTS BY SIZE, SHAPE, COLOR, AND SIGNIFICANT MARKING

41E CLASSIFY OBJECTS BY SIZE, SHAPE, COLOR AND SIGNIFICANT
MARKINGS

41F DETERMINE DIRECTION,DURATION, AND INTENSITY OF SOUNDS, SIGHT
SIGHTINGS,AND SMELLS

41G INFER FROM SIGHTS,SOUNDS,TOUCH,SMELLS,OR TASTES TO DETERM
COURSE OF ACTION

41H INTERPRET CODES AND SYMBOLS

45 MOTOR SKILL

45A MULTI-LIMB COORDINATION: COORDINATE GROSS MOVEMENTS
REQUIRING USE OF LARGE SKELETAL MUSCLES FOR STRENGTH

45B MANUAL DESTERITY: MAKE SKILLFUL, CONTROLLED ARM/HAND
JKMOVEMENTS IN MANIPULATING LARGE OBJECTS UNDER
SPEED CONDITIONS

45C CONTROL PRECISION: HIGHLY CONTROLLED, PRECISE
MUSCULAR ADJUSTMENTS, OPERATING CONTROLS BY HAND,
ARM OR FOOT MOVEMENTS

45D RESPONSE ORIENTATION: SELECT APPROPRIATE RESPONSE, EACH
PATTERN OF SIGNALS REQUIRES A DIFFERENT CHOICE OF
CONTROLS AND DIRECTION AND MOVEMENT-SPEED AND ACCURACY

45E REACTION TIME: SPEED WITH WHCH AN INDIVIDUAL IS ABLE
TO RESPOND TO AN AUDITORY OR VISUAL STIMULUS

45F RATE CONTROL: MAKE CONTINUOUS ANITICPATORY MOTOR
ADJUSTMENTS RELATIVE TO CHANGES IN SPEED KOF A MOVING
TARGET

45G FINGER DEXTERITY: SKILLFUL, CONTROLLED MANIPULATIONS
OF SMALL OBJECTS, PRIMARILY FINGER MOVEMENTS OF SMALL

45H ARM-HAND STEADNESS: MAKE PRECISE ARM-HAND POSITIONING
MOVEMENTS WHERE STRENGTH AND SPEED ARE MINIMIZED

45I WRIST-FINGER SPEED: MAKE RAID, PRECISE TURNING,
TAPPING, TRIPPING, ALIGNING MOTIONS IN RESPONSE TO
AUDITORY OF VISUAL STILULI

46 OPERATIONS

46A OPERATE EQUIPMENT OR BE A CREW MEMBER ENGGED IN
MANUALLY LIFTING OR MOVING OBJECTS

46B USE HAND TOOLS CONSIDERED TO BE COMMON; DETERMINE SIZES AND
AND SELECTION; PLIERS, SCREWDRIVERS, HAND DRILLS---SIMPLE
MECHANICAL OPERATIONS, MAINLY REMOVE AND REPLACE

46C INSTALL, RELOCATE AND REMOVE

46D ADJUST, REPAIR, MAINTAIN MECHANICAL, ELECTRICAL,
HYDRAULIC SYSTEMS OR SUBSYSTEMS; DISSEMBLE AND ASSEMBLE
USING HAND TOOLS

46E TESTING EQUIPMENT USED IN THE PRODUCTION, TRANSMISSION
DISTRIBUTION, AND UTILIZATION OF ENERGY SOURCES

46F CURRING, BENDING, TRIMMING, WELDING, RIVETING ETC.
TO FORCE, SHAP OR FABRICATE METALS

46G OPERATOR CHECKS AND SERVICES IN RESPONSE TO A VARIETY
OF EXTERNAL SIGHTS AND SOUNDS

46H POSSESS THE PHYSICAL ABIOLITY TO PERFORM IN COMBAT
OR POLICE ACTIONS

46I CLERICAL DUTIES, MAINTAINING RECORDS, OPERATING
OFFICE MACHINES, PROCESSING DATA USING ELECTRONIC
MACHINES

46J PERFORM ACTS REQUIRIUNG SKILL AND CARE OF INJURED OR
INFIRMED PERSONS

47 EQUIPMENT USE

48 OTHER

TABLE 2: Directory of Program and Input Files

JCL PROG	JOB NAME	PURPOSE	FORTRAN	FILES IN	FILES OUT
PRTPG1X	KJZPRTP1	PRINT TPA-1 REPORTS	DSLIST	MOS.PG1	PRINT
PRTCOMMX	KJZPRTCM	PRINT COMMENTS FROM COMMENTS FILE	PRTCOMM	MOS.COMMENTS	PRINT
PRTDISCX	KJZPRTDS	PRINT DISCREPANCIES	PRTDISC	MOS.DISCREP	PRINT
PRT2NEWX	KJZPRT2N	PRINT TPA-2 REPORTS, NEW	PG2NEW SCAN	DECISION.DATA MOS.PG2	PRINT MOS.CODES MOS.PCINDN
PRT2OLDX	KJZPRT2O	PRINT TPA-2 REPORTS, OLD	PG2OLD SCAN	DECISION.DATA MOS.PG2	PRINT MOS.TECHPRE
PRTKAX	KJZPRTKA	PRINT K A REPORT	PRTKA CREAPC CREAIS	MOS.KA	PRINT MOS.PCCODE MOS.PCIND
PRTPCNX	KJZPRPCN	PRINT COMPLETE P C IND STMTS	PCALLN	PCC.NEW_S	PRINT
PRTPCINX	KJZPRTIN	PRINT P C IND STMTS, NEW	PCINDN	MOS.PCINDN	PRINT
PRTPCOX	KJZPRPCO	PRINT COMPLETE P C IND STMTS	PCALLO	PCC.OLD_S	PRINT
PRTPCIOX	KJZPRTIO	PRINT P C IND STMTS, OLD	PCINDO	MOS.PCIND	PRINT
PRTTPX	KJZPRTTP	PRINT TECH PREREQUISITES REPORT	TECHPRT	MOS.TECHPRE	PRINT
PRT3OLDX	KJZPRT3O	PRINT TPA-3 REPORT, OLD	PG3OLD KNOWEX	MOS.PG3	PRINT MOS.B_KNOW
PRT3NEWX	KJZPRT3N	PRT TPA-3 NEW REPORT	PG3NEW KNOWEX	MOS.PG3	PRINT MOS.B_KNOW
PRTKNX	KJZPRTKN	PRT KNOWLEDGE STATEMENTS	KNOWPRT	MOS.B_KNOW	PRINT
PRTERRX	KJZPRTER	PRT ERRATA	ERRATA	MOS.ERRATA	PRINT
PRTTPAXX	KJZPRTTX	PRINT TPAX REPORT	PRTTPAX	MOS.TPAX	PRINT
TASKCOMP	KJZPRTTC	PRINT COMPLETE TASK STATEMENT	TASKPRT	TASK.COMPLETE	PRINT
TASKMOS	KJZPRTTM	PRINT TASK STATEMENT-MOS	DSLIST	MOS.TASKPRT	PRINT
PRTSUBT	KJZPRTST	PRINT COMPLETE SUBTASK LIST	SUBTASK SCANX	DECISION.DATA SUB.SUBTASK	PRINT
PRTSUBLS	KJZPRTSL	PRINT SUBTASK LIST	DSLIST	MOS.SUBLIST	PRINT

56

TABLE 3:   MOS Baseline Skills Data Base Tapes

```
*******************************
TAPE VOLUMES V07104,V07105, *
                V07191       *
LAST UPDATE: 04/23/83        *
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: TPA-2              *
TOTAL TAPE MARKS: 72         *
·OTAL RECORDS: 551,799       *
*******************************
```

DATA SET	FORMAT	TP NUMBER	TP MK
WTGFKJZ.000.PG2	NEW	029435	1
WTGFKJZ.05B.PG2	OLD	029435	2
WTGFKJZ.05C.PG2	OLD	029435	3
WTGFKJZ.05G.PG2	NEW	029435	4
WTGFKJZ.11B.PG2	NEW	029435	5
WTGFKJZ.11C.PG2	NEW	029435	6
WTGFKJZ.11H.PG2	NEW	029435	7
WTGFKJZ.11M.PG2	NEW	029435	8
WTGFKJZ.12B.PG2	NEW	029435	9
WTGFKJZ.13B.PG2	NEW	029435	10
WTGFKJZ.13E.PG2	NEW	029435	11
WTGFKJZ.13F.PG2	OLD	029435	12
WTGFKJZ.15D.PG2	OLD	029435	13
WTGFKJZ.15E.PG2	NEW	029435	14
WTGFKJZ.16D.PG2	OLD	029435	15
WTGFKJZ.16E.PG2	OLD	029435	16
WTGFKJZ.16H.PG2	NEW	029435	17
WTGFKJZ.16P.PG2	NEW	029435	18
WTGFKJZ.17B.PG2	NEW	029435	19
WTGFKJZ.17C.PG2	NEW	029435	20
WTGFKJZ.17K.PG2	NEW	029435	21
WTGFKJZ.19D.PG2	NEW	029435	22
WTGFKJZ.19E.PG2	NEW	029435	23
WTGFKJZ.24C.PG2	NEW	029435	24
WTGFKJZ.24H.PG2	NEW	029435	25
WTGFKJZ.26L.PG2	OLD	029435	26
WTGFKJZ.26Q.PG2	OLD	029435	27
WTGFKJZ.27E.PG2	NEW	029435	28
WTGFKJZ.31J.PG2	NEW	029435	29
WTGFKJZ.31M.PG2	OLD	029435	30
WTGFKJZ.31N.PG2	NEW	029435	31
WTGFKJZ.31V.PG2	NEW	029435	32
WTGFKJZ.32D.PG2	NEW	029435	33
WTGFKJZ.32H.PG2	NEW	029435	34
WTGFKJZ.33S.PG2	NEW	029435	35
WTGFKJZ.35K.PG2	NEW	029435	36
WTGFKJZ.36C.PG2	NEW	029435	37
WTGFKJZ.36K.PG2	NEW	029435	38
WTGFKJZ.43E.PG2	NEW	029435	39
WTGFKJZ.43M.PG2	OLD	029435	40
WTGFKJZ.44B.PG2	OLD	029435	41
WTGFKJZ.44E.PG2	OLD	029435	42

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WTGFKJZ.45B.PG2      NEW      029435   43
WTGFKJZ.45K.PG2      NEW      029435   44
WTGFKJZ.52C.PG2      NEW      029435   45
WTGFKJZ.52D.PG2      NEW      029435   46
WTGFKJZ.54E.PG2      NEW      029435   47
WTGFKJZ.55B.PG2      NEW      029435   48
WTGFKJZ.55D.PG2      NEW      029435   49
WTGFKJZ.57E.PG2      OLD      029435   50
WTGFKJZ.57H.PG2      NEW      029435   51
WTGFKJZ.61B.PG2      OLD      029435   52
WTGFKJZ.61C.PG2      NEW      029435   53
WTGFKJZ.62B.PG2      NEW      029435   54
WTGFKJZ.62E.PG2      NEW      029435   55
WTGFKJZ.63G.PG2      NEW      029435   56
WTGFKJZ.63H.PG2      OLD      029435   57
WTGFKJZ.63N.PG2      NEW      029435   58
WTGFKJZ.63W.PG2      OLD      029435   59
WTGFKJZ.64C.PG2      NEW      029435   60
WTGFKJZ.67G.PG2      NEW      029435   61
WTGFKJZ.67N.PG2      NEW      029435   62
WTGFKJZ.67T.PG2      NEW      029435   63
WTGFKJZ.67U.PG2      OLD      029435   64
WTGFKJZ.67V.PG2      NEW      029435   65
WTGFKJZ.67Y.PG2      NEW      029435   66
WTGFKJZ.68B.PG2      NEW      029435   67
WTGFKJZ.68D.PG2      NEW      029435   68
WTGFKJZ.68F.PG2      NEW      029435   69
WTGFKJZ.68G.PG2      OLD      029435   70
WTGFKJZ.68H.PG2      NEW      029435   71
WTGFKJZ.68J.PG2      NEW      029435   72
WTGFKJZ.68M.PG2      NEW      029435   73
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*****************************
TAPE VOLUMES V07106, V07107,*
                V07192      *
LAST UPDATE: 04/23/83       *
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: TPA-2             *
TOTAL TAPE MARKS: 21        *
TOTAL RECORDS: 113,315      *
*****************************
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DATA SET	FORMAT	TP NUMBER	TP MK
WTGFKJZ.71D.PG2	OLD	029604	1
WTGFKJZ.71L.PG2	OLD	029604	2
WTGFKJZ.71M.PG2	NEW	029604	3
WTGFKJZ.71P.PG2	NEW	029604	4
WTGFKJZ.71Q.PG2	OLD	029604	5
WTGFKJZ.72E.PG2	NEW	029604	6
WTGFKJZ.74D.PG2	NEW	029604	7
WTGFKJZ.74F.PG2	NEW	029604	8
WTGFKJZ.75B.PG2	OLD	029604	9
WTGFKJZ.76C.PG2	NEW	029604	10
WTGFKJZ.76P.PG2	NEW	029604	11
WTGFKJZ.76V.PG2	NEW	029604	12
WTGFKJZ.76W.PG2	NEW	029604	13

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WTGFKJZ.76X.PG2      OLD      029604   14
WTGFKJZ.76Y.PG2      NEW      029604   15
WTGFKJZ.82C.PG2      NEW      029604   16
WTGFKJZ.91B.PG2      NEW      029604   17
WTGFKJZ.93J.PG2      NEW      029604   18
WTGFKJZ.94B.PG2      NEW      029604   19
WTGFKJZ.95B.PG2      NEW      029604   20
WTGFKJZ.95C.PG2      NEW      029604   21
WTGFKJZ.96B.PG2      OLD      029604   22
*******************************
TAPE VOLUMES V07108 - V07110*
LAST UPDATE: 05/10/83        *
RECORDSIZE 92 BLOCKSIZE 920 *
CONTENTS: TPA-1              *
TAPE MARKS: 1 - 94          *
TOTAL RECORDS: 464,940      *
----------------------------*
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: COMMENTS          *
TAPE MARKS: 95 - 171        *
TOTAL RECORDS: 10,106       *
----------------------------*
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: ERRATA            *
TAPE MARKS: 172 - 243       *
TOTAL RECORDS: 12,429       *
*******************************
     DATA SET            TP NUMBER TP MK
WTGFKJZ.000.PG1            029043   1
WTGFKJZ.05B.PG1           029043   2
WTGFKJZ.05C.PG1           029043   3
WTGFKJZ.05G.PG1           029043   4
WTGFKJZ.11B.PG1           029043   5
WTGFKJZ.11C.PG1           029043   6
WTGFKJZ.11H.PG1           029043   7
WTGFKJZ.11M.PG1           029043   8
WTGFKJZ.12B.PG1           029043   9
WTGFKJZ.13B.PG1           029043   10
WTGFKJZ.13E.PG1           029043   11
WTGFKJZ.13F.PG1           029043   12
WTGFKJZ.15D.PG1           029043   13
WTGFKJZ.15E.PG1           029043   14
WTGFKJZ.16D.PG1           029043   15
WTGFKJZ.16E.PG1           029043   16
WTGFKJZ.16H.PG1           029043   17
WTGFKJZ.16P.PG1           029043   18
WTGFKJZ.17B.PG1           029043   19
WTGFKJZ.17C.PG1           029043   20
WTGFKJZ.17K.PG1           029043   21
WTGFKJZ.19D.PG1           029043   22
WTGFKJZ.19E.PG1           029043   23
WTGFKJZ.24C.PG1           029043   24
WTGFKJZ.24H.PG1           029043   25
WTGFKJZ.26L.PG1           029043   26
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WTGFKJZ.26Q.PG1          029043  27
WTGFKJZ.27E.PG1          029043  28
WTGFKJZ.31J.PG1          029043  29
WTGFKJZ.31M.PG1          029043  30
WTGFKJZ.31N.PG1          029043  31
WTGFKJZ.31V.PG1          029043  32
WTGFKJZ.32D.PG1          029043  33
WTGFKJZ.32H.PG1          029043  34
WTGFKJZ.33S.PG1          029043  35
WTGFKJZ.35K.PG1          029043  36
WTGFKJZ.36C.PG1          029043  37
WTGFKJZ.36K.PG1          029043  38
WTGFKJZ.43E.PG1          029043  39
WTGFKJZ.43M.PG1          029043  40
WTGFKJZ.44B.PG1          029043  41
WTGFKJZ.44E.PG1          029043  42
WTGFKJZ.45B.PG1          029043  43
WTGFKJZ.45K.PG1          029043  44
WTGFKJZ.52C.PG1          029043  45
WTGFKJZ.52D.PG1          029043  46
WTGFKJZ.54E.PG1          029043  47
WTGFKJZ.55B.PG1          029043  48
WTGFKJZ.55D.PG1          029043  49
WTGFKJZ.57E.PG1          029043  50
WTGFKJZ.57H.PG1          029043  51
WTGFKJZ.61B.PG1          029043  52
WTGFKJZ.61C.PG1          029043  53
WTGFKJZ.62B.PG1          029043  54
WTGFKJZ.62E.PG1          029043  55
WTGFKJZ.63G.PG1          029043  56
WTGFKJZ.63H.PG1          029043  57
WTGFKJZ.63N.PG1          029043  58
WTGFKJZ.63W.PG1          029043  59
WTGFKJZ.64C.PG1          029043  60
WTGFKJZ.67G.PG1          029043  61
WTGFKJZ.67N.PG1          029043  62
WTGFKJZ.67T.PG1          029043  63
WTGFKJZ.67U.PG1          029043  64
WTGFKJZ.67V.PG1          029043  65
WTGFKJZ.67Y.PG1          029043  66
WTGFKJZ.68B.PG1          029043  67
WTGFKJZ.68D.PG1          029043  68
WTGFKJZ.68F.PG1          029043  69
WTGFKJZ.68G.PG1          029043  70
WTGFKJZ.68H.PG1          029043  71
WTGFKJZ.68J.PG1          029043  72
WTGFKJZ.68M.PG1          029043  73
WTGFKJZ.71D.PG1          029043  74
WTGFKJZ.71L.PG1          029043  75
WTGFKJZ.71M.PG1          029043  76
WTGFKJZ.71P.PG1          029043  77
WTGFKJZ.71Q.PG1          029043  78
WTGFKJZ.72E.PG1          029043  79
WTGFKJZ.74D.PG1          029043  80
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WTGFKJZ.74F.PG1          029043    81
WTGFKJZ.75B.PG1          029043    82
WTGFKJZ.76C.PG1          029043    83
WTGFKJZ.76P.PG1          029043    84
WTGFKJZ.76V.PG1          029043    85
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WTGFKJZ.76X.PG1          029043    87
WTGFKJZ.76Y.PG1          029043    88
WTGFKJZ.82C.PG1          029043    89
WTGFKJZ.91B.PG1          029043    90
WTGFKJZ.93J.PG1          029043    91
WTGFKJZ.94B.PG1          029043    92
WTGFKJZ.95B.PG1          029043    93
WTGFKJZ.95C.PG1          029043    94
WTGFKJZ.96B.PG1          029043    95
WTGFKJZ.000.COMMENTS     029043    96
WTGFKJZ.05B.COMMENTS     029043    97
WTGFKJZ.05C.COMMENTS     029043    98
WTGFKJZ.05G.COMMENTS     029043    99
WTGFKJZ.11B.COMMENTS     029043    100
WTGFKJZ.11C.COMMENTS     029043    101
WTGFKJZ.11H.COMMENTS     029043    102
WTGFKJZ.11M.COMMENTS     029043    103
WTGFKJZ.12B.COMMENTS     029043    104
WTGFKJZ.13B.COMMENTS     029043    105
WTGFKJZ.13E.COMMENTS     029043    106
WTGFKJZ.13F.COMMENTS     029043    107
WTGFKJZ.15E.COMMENTS     029043    108
WTGFKJZ.16D.COMMENTS     029043    109
WTGFKJZ.16E.COMMENTS     029043    110
WTGFKJZ.16H.COMMENTS     029043    111
WTGFKJZ.16P.COMMENTS     029043    112
WTGFKJZ.17B.COMMENTS     029043    113
WTGFKJZ.17C.COMMENTS     029043    114
WTGFKJZ.17K.COMMENTS     029043    115
WTGFKJZ.19D.COMMENTS     029043    116
WTGFKJZ.19E.COMMENTS     029043    117
WTGFKJZ.24C.COMMENTS     029043    118
WTGFKJZ.24H.COMMENTS     029043    119
WTGFKJZ.26L.COMMENTS     029043    120
WTGFKJZ.26Q.COMMENTS     029043    121
WTGFKJZ.27E.COMMENTS     029043    122
WTGFKJZ.31J.COMMENTS     029043    123
WTGFKJZ.31M.COMMENTS     029043    124
WTGFKJZ.31V.COMMENTS     029043    125
WTGFKJZ.32H.COMMENTS     029043    126
WTGFKJZ.33S.COMMENTS     029043    127
WTGFKJZ.35K.COMMENTS     029043    128
WTGFKJZ.36C.COMMENTS     029043    129
WTGFKJZ.36K.COMMENTS     029043    130
WTGFKJZ.43E.COMMENTS     029043    131
WTGFKJZ.43M.COMMENTS     029043    132
WTGFKJZ.45B.COMMENTS     029043    133
WTGFKJZ.45K.COMMENTS     029043    134
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WTGFKJZ.52C.COMMENTS          029043    135
WTGFKJZ.52D.COMMENTS          029043    136
WTGFKJZ.54E.COMMENTS          029043    137
WTGFKJZ.55B.COMMENTS          029043    138
WTGFKJZ.57H.COMMENTS          029043    139
WTGFKJZ.61B.COMMENTS          029043    140
WTGFKJZ.61C.COMMENTS          029043    141
WTGFKJZ.62B.COMMENTS          029043    142
WTGFKJZ.63G.COMMENTS          029043    143
WTGFKJZ.63H.COMMENTS          029043    144
WTGFKJZ.63N.COMMENTS          029043    145
WTGFKJZ.63W.COMMENTS          029043    146
WTGFKJZ.64C.COMMENTS          029043    147
WTGFKJZ.67N.COMMENTS          029043    148
WTGFKJZ.67T.COMMENTS          029043    149
WTGFKJZ.67U.COMMENTS          029043    150
WTGFKJZ.67V.COMMENTS          029043    151
WTGFKJZ.67Y.COMMENTS          029043    152
WTGFKJZ.68B.COMMENTS          029043    153
WTGFKJZ.68G.COMMENTS          029043    154
WTGFKJZ.68J.COMMENTS          029043    155
WTGFKJZ.68M.COMMENTS          029043    156
WTGFKJZ.71D.COMMENTS          029043    157
WTGFKJZ.71L.COMMENTS          029043    158
WTGFKJZ.71M.COMMENTS          029043    159
WTGFKJZ.71P.COMMENTS          029043    160
WTGFKJZ.72E.COMMENTS          029043    161
WTGFKJZ.74D.COMMENTS          029043    162
WTGFKJZ.74F.COMMENTS          029043    163
WTGFKJZ.75B.COMMENTS          029043    164
WTGFKJZ.76C.COMMENTS          029043    165
WTGFKJZ.76V.COMMENTS          029043    166
WTGFKJZ.82C.COMMENTS          029043    167
WTGFKJZ.91B.COMMENTS          029043    168
WTGFKJZ.94B.COMMENTS          029043    169
WTGFKJZ.95B.COMMENTS          029043    170
WTGFKJZ.95C.COMMENTS          029043    171
WTGFKJZ.96B.COMMENTS          029043    172
WTGFKJZ.05B.ERRATA            029043    173
WTGFKJZ.05C.ERRATA            029043    174
WTGFKJZ.05G.ERRATA            029043    175
WTGFKJZ.11B.ERRATA            029043    176
WTGFKJZ.11C.ERRATA            029043    177
WTGFKJZ.11H.ERRATA            029043    178
WTGFKJZ.11M.ERRATA            029043    179
WTGFKJZ.12B.ERRATA            029043    180
WTGFKJZ.13B.ERRATA            029043    181
WTGFKJZ.13E.ERRATA            029043    182
WTGFKJZ.13F.ERRATA            029043    183
WTGFKJZ.15D.ERRATA            029043    184
WTGFKJZ.15E.ERRATA            029043    185
WTGFKJZ.16D.ERRATA            029043    186
WTGFKJZ.16E.ERRATA            029043    187
WTGFKJZ.16H.ERRATA            029043    188
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WTGFKJZ.16P.ERRATA          029043   189
WTGFKJZ.17B.ERRATA          029043   190
WTGFKJZ.17C.ERRATA          029043   191
WTGFKJZ.17K.ERRATA          029043   192
WTGFKJZ.19D.ERRATA          029043   193
WTGFKJZ.24H.ERRATA          029043   194
WTGFKJZ.26L.ERRATA          029043   195
WTGFKJZ.31M.ERRATA          029043   196
WTGFKJZ.31V.ERRATA          029043   197
WTGFKJZ.32D.ERRATA          029043   198
WTGFKJZ.32H.ERRATA          029043   199
WTGFKJZ.33S.ERRATA          029043   200
WTGFKJZ.35K.ERRATA          029043   201
WTGFKJZ.36C.ERRATA          029043   202
WTGFKJZ.36K.ERRATA          029043   203
WTGFKJZ.43E.ERRATA          029043   204
WTGFKJZ.43M.ERRATA          029043   205
WTGFKJZ.44B.ERRATA          029043   206
WTGFKJZ.44E.ERRATA          029043   207
WTGFKJZ.45B.ERRATA          029043   208
WTGFKJZ.45K.ERRATA          029043   209
WTGFKJZ.52C.ERRATA          029043   210
WTGFKJZ.52D.ERRATA          029043   211
WTGFKJZ.55B.ERRATA          029043   212
WTGFKJZ.55D.ERRATA          029043   213
WTGFKJZ.57E.ERRATA          029043   214
WTGFKJZ.61B.ERRATA          029043   215
WTGFKJZ.62E.ERRATA          029043   216
WTGFKJZ.63G.ERRATA          029043   217
WTGFKJZ.63H.ERRATA          029043   218
WTGFKJZ.63N.ERRATA          029043   219
WTGFKJZ.63W.ERRATA          029043   220
WTGFKJZ.67N.ERRATA          029043   221
WTGFKJZ.67U.ERRATA          029043   222
WTGFKJZ.67V.ERRATA          029043   223
WTGFKJZ.67Y.ERRATA          029043   224
WTGFKJZ.68G.ERRATA          029043   225
WTGFKJZ.71D.ERRATA          029043   226
WTGFKJZ.71L.ERRATA          029043   227
WTGFKJZ.71M.ERRATA          029043   228
WTGFKJZ.71P.ERRATA          029043   229
WTGFKJZ.71Q.ERRATA          029043   230
WTGFKJZ.72E.ERRATA          029043   231
WTGFKJZ.74D.ERRATA          029043   232
WTGFKJZ.74F.ERRATA          029043   233
WTGFKJZ.75B.ERRATA          029043   234
WTGFKJZ.76C.ERRATA          029043   235
WTGFKJZ.76P.ERRATA          029043   236
WTGFKJZ.76V.ERRATA          029043   237
WTGFKJZ.76W.ERRATA          029043   238
WTGFKJZ.76Y.ERRATA          029043   239
WTGFKJZ.82C.ERRATA          029043   240
WTGFKJZ.93J.ERRATA          029043   241
WTGFKJZ.94B.ERRATA          029043   242
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WTGFKJZ.95C.ERRATA          029043  243
WTGFKJZ.96B.ERRATA          029043  244
*********************************
TAPE VOLUMES V07163 - V07165*
LAST UPDATE: 05/15/83       *
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: TPA-3             *
TAPE MARKS: 1 - 27          *
TOTAL RECORDS: 62,674       *
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CONTENTS: KA                *
TAPE MARKS: 28 - 51         *
TOTAL RECORDS: 44,936       *
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CONTENTS: TPA-X             *
TAPE MARKS: 52 - 54         *
TOTAL RECORDS:  1,180       *
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TOTAL TAPE RECORDS: 108,790 *
*********************************
     DATA SET        FORMAT    TP NUMBER  TP MK
WTGFKJZ.05B.PG3       OLD        029746   1
WTGFKJZ.05C.PG3       OLD        029746   2
WTGFKJZ.13F.PG3       OLD        029746   3
WTGFKJZ.15D.PG3       OLD        029746   4
WTGFKJZ.16D.PG3       OLD        029746   5
WTGFKJZ.16E.PG3       OLD        029746   6
WTGFKJZ.24H.PG3       NEW        029746   7
WTGFKJZ.26L.PG3       OLD        029746   8
WTGFKJZ.26Q.PG3       OLD        029746   9
WTGFKJZ.31M.PG3       OLD        029746   10
WTGFKJZ.43M.PG3       OLD        029746   11
WTGFKJZ.44B.PG3       OLD        029746   12
WTGFKJZ.44E.PG3       OLD        029746   13
WTGFKJZ.57E.PG3       OLD        029746   14
WTGFKJZ.61B.PG3       OLD        029746   15
WTGFKJZ.63H.PG3       OLD        029746   16
WTGFKJZ.63W.PG3       OLD        029746   17
WTGFKJZ.64C.PG3       NEW        029746   18
WTGFKJZ.67U.PG3       OLD        029746   19
WTGFKJZ.68G.PG3       OLD        029746   20
WTGFKJZ.71D.PG3       OLD        029746   21
WTGFKJZ.71L.PG3       OLD        029746   22
WTGFKJZ.71Q.PG3       OLD        029746   23
WTGFKJZ.75B.PG3       OLD        029746   24
WTGFKJZ.76X.PG3       OLD        029746   25
WTGFKJZ.91B.PG3       NEW        029746   26
WTGFKJZ.91B.PG3       OLD        029746   27
WTGFKJZ.96B.PG3       OLD        029746   28
WTGFKJZ.05B.KA        OLD        029746   29
WTGFKJZ.05C.KA        OLD        029746   30
WTGFKJZ.13F.KA        OLD        029746   31
WTGFKJZ.15D.KA        OLD        029746   32
WTGFKJZ.16D.KA        OLD        029746   33
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WTGFKJZ.16E.KA        OLD         029746   34
WTGFKJZ.26L.KA        OLD         029746   35
WTGFKJZ.26Q.KA        OLD         029746   36
WTGFKJZ.31M.KA        OLD         029746   37
WTGFKJZ.43M.KA        OLD         029746   38
WTGFKJZ.44B.KA        OLD         029746   39
WTGFKJZ.44E.KA        OLD         029746   40
WTGFKJZ.57E.KA        OLD         029746   41
WTGFKJZ.61B.KA        OLD         029746   42
WTGFKJZ.63H.KA        OLD         029746   43
WTGFKJZ.63W.KA        OLD         029746   44
WTGFKJZ.67U.KA        OLD         029746   45
WTGFKJZ.68G.KA        OLD         029746   46
WTGFKJZ.71D.KA        OLD         029746   47
WTGFKJZ.71L.KA        OLD         029746   48
WTGFKJZ.71Q.KA        OLD         029746   49
WTGFKJZ.75B.KA        OLD         029746   50
WTGFKJZ.76X.KA        OLD         029746   51
WTGFKJZ.96B.KA        OLD         029746   52
WTGFKJZ.19D.TPAX      NEW         029746   53
WTGFKJZ.19E.TPAX      NEW         029746   54
WTGFKJZ.71Q.TPAX      OLD         029746   55
******************************
TAPE VOLUMES V07166 - V07168*
LAST UPDATE: 05/16/83        *
RECORDSIZE 61 BLOCKSIZE 610  *
CONTENTS: PC INDICATOR       *
          STATEMENTS BSEP I  *
TOTAL TAPE MARKS: 71         *
TOTAL RECORDS: 623,673       *
******************************
   DATA SET              TP NUMBER TP MK
WTGFKJZ.000.PCINDN1        052078   1
WTGFKJZ.05G.PCINDN1        052078   2
WTGFKJZ.11B.PCINDN1        052078   3
WTGFKJZ.11C.PCINDN1        052078   4
WTGFKJZ.11H.PCINDN1        052078   5
WTGFKJZ.11M.PCINDN1        052078   6
WTGFKJZ.12B.PCINDN1        052078   7
WTGFKJZ.13B.PCINDN1        052078   8
WTGFKJZ.13E.PCINDN1        052078   9
WTGFKJZ.15E.PCINDN1        052078   10
WTGFKJZ.16H.PCINDN1        052078   11
WTGFKJZ.16P.PCINDN1        052078   12
WTGFKJZ.17B.PCINDN1        052078   13
WTGFKJZ.17C.PCINDN1        052078   14
WTGFKJZ.17K.PCINDN1        052078   15
WTGFKJZ.19D.PCINDN1        052078   16
WTGFKJZ.19E.PCINDN1        052078   17
WTGFKJZ.24C.PCINDN1        052078   18
WTGFKJZ.24H.PCINDN1        052078   19
WTGFKJZ.27E.PCINDN1        052078   20
WTGFKJZ.31J.PCINDN1        052078   21
WTGFKJZ.31N.PCINDN1        052078   22
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WTGFKJZ.31V.PCINDN1          052078  23
WTGFKJZ.32D.PCINDN1          052078  24
WTGFKJZ.32H.PCINDN1          052078  25
WTGFKJZ.33S.PCINDN1          052078  26
WTGFKJZ.35K.PCINDN1          052078  27
WTGFKJZ.36C.PCINDN1          052078  28
WTGFKJZ.36K.PCINDN1          052078  29
WTGFKJZ.43E.PCINDN1          052078  30
WTGFKJZ.45B.PCINDN1          052078  31
WTGFKJZ.45K.PCINDN1          052078  32
WTGFKJZ.52C.PCINDN1          052078  33
WTGFKJZ.52D.PCINDN1          052078  34
WTGFKJZ.54E.PCINDN1          052078  35
WTGFKJZ.55B.PCINDN1          052078  36
WTGFKJZ.55D.PCINDN1          052078  37
WTGFKJZ.57H.PCINDN1          052078  38
WTGFKJZ.61C.PCINDN1          052078  39
WTGFKJZ.62B.PCINDN1          052078  40
WTGFKJZ.62E.PCINDN1          052078  41
WTGFKJZ.63G.PCINDN1          052078  42
WTGFKJZ.63N.PCINDN1          052078  43
WTGFKJZ.64C.PCINDN1          052078  44
WTGFKJZ.67G.PCINDN1          052078  45
WTGFKJZ.67N.PCINDN1          052078  46
WTGFKJZ.67T.PCINDN1          052078  47
WTCFKJZ.67V.PCINDN1          052078  48
WTGFKJZ.67Y.PCINDN1          052078  49
WTGFKJZ.68B.PCINDN1          052078  50
WTGFKJZ.68D.PCINDN1          052078  51
WTGFKJZ.68F.PCINDN1          052078  52
WTGFKJZ.68H.PCINDN1          052078  53
WTGFKJZ.68J.PCINDN1          052078  54
WTGFKJZ.68M.PCINDN1          052078  55
WTGFKJZ.71M.PCINDN1          052078  56
WTGFKJZ.71P.PCINDN1          052078  57
WTGFKJZ.72E.PCINDN1          052078  58
WTGFKJZ.74D.PCINDN1          052078  59
WTGFKJZ.74F.PCINDN1          052078  60
WTGFKJZ.76C.PCINDN1          052078  61
WTGFKJZ.76P.PCINDN1          052078  62
WTGFKJZ.76V.PCINDN1          052078  63
WTGFKJZ.76W.PCINDN1          052078  64
WTGFKJZ.76Y.PCINDN1          052078  65
WTGFKJZ.82C.PCINDN1          052078  66
WTGFKJZ.91B.PCINDN1          052078  67
WTGFKJZ.93J.PCINDN1          052078  68
WTGFKJZ.94B.PCINDN1          052078  69
WTGFKJZ.95B.PCINDN1          052078  70
WTGFKJZ.95C.PCINDN1          052078  71
*****************************
TAPE VOLUMES V07169 - V07171*
LAST UPDATE: 05/16/83        *
RECORDSIZE 61 BLOCKSIZE 610 *
CONTENTS: PC INDICATOR       *
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              STATEMENTS BSEP II*
TOTAL TAPE MARKS: 69          *
TOTAL RECORDS: 324,300        *
*********************************
    DATA SET                TP NUMBER TP MK
WTGFKJZ.000.PCINDN2          051521   1
WTGFKJZ.05G.PCINDN2          051521   2
WTGFKJZ.11B.PCINDN2          051521   3
WTGFKJZ.11C.PCINDN2          051521   4
WTGFKJZ.11H.PCINDN2          051521   5
WTGFKJZ.11M.PCINDN2          051521   6
WTGFKJZ.12B.PCINDN2          051521   7
WTGFKJZ.13B.PCINDN2          051521   8
WTGFKJZ.13E.PCINDN2          051521   9
WTGFKJZ.15E.PCINDN2          051521   10
WTGFKJZ.16H.PCINDN2          051521   11
WTGFKJZ.16P.PCINDN2          051521   12
WTGFKJZ.17B.PCINDN2          051521   13
WTGFKJZ.17C.PCINDN2          051521   14
WTGFKJZ.17K.PCINDN2          051521   15
WTGFKJZ.19D.PCINDN2          051521   16
WTGFKJZ.19E.PCINDN2          051521   17
WTGFKJZ.24C.PCINDN2          051521   18
WTGFKJZ.24H.PCINDN2          051521   19
WTGFKJZ.27E.PCINDN2          051521   20
WTGFKJZ.31J.PCINDN2          051521   21
WTGFKJZ.31N.PCINDN2          051521   22
WTGFKJZ.31V.PCINDN2          051521   23
WTGFKJZ.32D.PCINDN2          051521   24
WTGFKJZ.32H.PCINDN2          051521   25
WTGFKJZ.33S.PCINDN2          051521   26
WTGFKJZ.35K.PCINDN2          051521   27
WTGFK.JZ.36C.PCINDN2         051521   28
WTGFKJZ.36K.PCINDN2          051521   29
WTGFKJZ.43E.PCINDN2          051521   30
WTGFKJZ.45B.PCINDN2          051521   31
WTGFKJZ.45K.PCINDN2          051521   32
WTGFKJZ.52C.PCINDN2          051521   33
WTGFKJZ.52D.PCINDN2          051521   34
WTGFKJZ.54E.PCINDN2          051521   35
WTGFKJZ.55B.PCINDN2          051521   36
WTGFKJZ.55D.PCINDN2          051521   37
WTGFKJZ.57H.PCINDN2          051521   38
WTGFKJZ.61C.PCINDN2          051521   39
WTGFKJZ.62B.PCINDN2          051521   40
WTGFKJZ.62E.PCINDN2          051521   41
WTGFKJZ.63G.PCINDN2          051521   42
WTGFKJZ.63N.PCINDN2          051521   43
WTGFKJZ.64C.PCINDN2          051521   44
WTGFKJZ.67G.PCINDN2          051521   45
WTGFKJZ.67N.PCINDN2          051521   46
WTGFKJZ.67T.PCINDN2          051521   47
WTGFKJZ.67V.PCINDN2          051521   48
WTGFKJZ.67Y.PCINDN2          051521   49
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WTGFKJZ.68B.PCINDN2          051521    50
WTGFKJZ.68D.PCINDN2          051521    51
WTGFKJZ.68F.PCINDN2          051521    52
WTGFKJZ.68H.PCINDN2          051521    53
WTGFKJZ.68J.PCINDN2          051521    54
WTGFKJZ.68M.PCINDN2          051521    55
WTGFKJZ.71M.PCINDN2          051521    56
WTGFKJZ.71P.PCINDN2          051521    57
WTGFKJZ.72E.PCINDN2          051521    58
WTGFKJZ.74D.PCINDN2          051521    59
WTGFKJZ.74F.PCINDN2          051521    60
WTGFKJZ.76P.PCINDN2          051521    61
WTGFKJZ.76V.PCINDN2          051521    62
WTGFKJZ.76W.PCINDN2          051521    63
WTGFKJZ.76Y.PCINDN2          051521    64
WTGFKJZ.82C.PCINDN2          051521    65
WTGFKJZ.91B.PCINDN2          051521    66
WTGFKJZ.93J.PCINDN2          051521    67
WTGFKJZ.94B.PCINDN2          051521    68
WTGFKJZ.95B.PCINDN2          051521    69
WTGFKJZ.95C.PCINDN2          051521    70
*******************************
TAPE VOLUMES V07111, V07113,*
              V07173        *
LAST UPDATE: 10/04/83       *
RECORDSIZE 80 BLOCKSIZE 800 *
CONTENTS: SUBLIST           *
TAPE MARKS: 1 - 44          *
TOTAL RECORDS: 2,438        *
----------------------------*
CONTENTS: COMPLETE SUBTASK  *
RECORDSIZE 80 BLOCKSIZE 800 *
TAPE MARKS: 45 - 105        *
TOTAL RECORDS: 5,570        *
----------------------------*
CONTENTS: SUBTASKS          *
RECORDSIZE 80 BLOCKSIZE 800 *
TAPE MARKS: 106 - 166       *
TOTAL RECORDS:  4,346       *
----------------------------*
CONTENTS: PC STATEMENTS OLD *
LRECL 204 BLOCKSIZE 2040    *
TAPE MARKS: 167 - 213       *
TOTAL RECORDS:  10,688      *
----------------------------*
CONTENTS: COMPLETE PC OLD   *
          BSEP I & II       *
LRECL 204 BLOCKSIZE 2040    *
TAPE MARKS: 214 , 215       *
TOTAL RECORDS:  10,602      *
----------------------------*
CONTENTS: KNOWLEDGE LISTS   *
LRECL 198 BLOCKSIZE 1980    *
TAPE MARKS: 216 - 264       *
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TOTAL RECORDS:  19,598       *
----------------------------*
CONTENTS: TECHNICAL PREREQ   *
LRECL 61  BLOCKSIZE 610      *
TAPE MARKS: 265 - 311        *
TOTAL RECORDS:  7,491        *
----------------------------*
CONTENTS: TASK LISTS         *
LRECL 132 BLOCKSIZE 1320     *
TAPE MARKS: 312 - 406        *
TOTAL RECORDS:  27,515       *
----------------------------*
CONTENTS: DISCREPANCIES      *
LRECL 98  BLOCKSIZE 980      *
TAPE MARKS: 407 - 477        *
TOTAL RECORDS:  1,788        *
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CONTENTS: COMPLETE TASK LIST*
LRECL 255 BLOCKSIZE 2550     *
TAPE MARK: 478               *
TOTAL RECORDS:  6,336        *
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TOTAL TAPE RECORDS: 96,372   *
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    DATA SET            TP NUMBER  TP MK
WTGFKJZ.05G.SUBLIST       051133   1
WTGFKJZ.13B.SUBLIST       051133   2
WTGFKJZ.13F.SUBLIST       051133   3
WTGFKJZ.15E.SUBLIST       051133   4
WTGFKJZ.16H.SUBLIST       051133   5
WTGFKJZ.17B.SUBLIST       051133   6
WTGFKJZ.17C.SUBLIST       051133   7
WTGFKJZ.17K.SUBLIST       051133   8
WTGFKJZ.19D.SUBLIST       051133   9
WTGFKJZ.19E.SUBLIST       051133   10
WTGFKJZ.24C.SUBLIST       051133   11
WTGFKJZ.24H.SUBLIST       051133   12
WTGFKJZ.27E.SUBLIST       051133   13
WTGFKJZ.31J.SUBLIST       051133   14
WTGFKJZ.31N.SUBLIST       051133   15
WTGFKJZ.31V.SUBLIST       051133   16
WTGFKJZ.32H.SUBLIST       051133   17
WTGFKJZ.33S.SUBLIST       051133   18
WTGFKJZ.36C.SUBLIST       051133   19
WTGFKJZ.36K.SUBLIST       051133   20
WTGFKJZ.45B.SUBLIST       051133   21
WTGFKJZ.45K.SUBLIST       051133   22
WTGFKJZ.52C.SUBLIST       051133   23
WTGFKJZ.52D.SUBLIST       051133   24
WTGFKJZ.54E.SUBLIST       051133   25
WTGFKJZ.55B.SUBLIST       051133   26
WTGFKJZ.55D.SUBLIST       051133   27
WTGFKJZ.57H.SUBLIST       051133   28
WTGFKJZ.62B.SUBLIST       051133   29
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WTGFKJZ.62E.SUBLIST          051133   30
WTGFKJZ.63G.SUBLIST          051133   31
WTGFKJZ.63N.SUBLIST          051133   32
WTGFKJZ.64C.SUBLIST          051133   33
WTGFKJZ.67G.SUBLIST          051133   34
WTGFKJZ.67N.SUBLIST          051133   35
WTGFKJZ.67T.SUBLIST          051133   36
WTGFKJZ.67V.SUBLIST          051133   37
WTGFKJZ.68D.SUBLIST          051133   38
WTGFKJZ.68F.SUBLIST          051133   39
WTGFKJZ.68H.SUBLIST          051133   40
WTGFKJZ.68J.SUBLIST          051133   41
WTGFKJZ.72E.SUBLIST          051133   42
WTGFKJZ.76P.SUBLIST          051133   43
WTGFKJZ.93J.SUBLIST          051133   44
WTGFKJZ.95B.SUBLIST          051133   45
WTGFKJZ.AV04.SUBTASK         051133   46
WTGFKJZ.AV05.SUBTASK         051133   47
WTGFKJZ.AV07.SUBTASK         051133   48
WTGFKJZ.AV09.SUBTASK         051133   49
WTGFKJZ.AV10.SUBTASK         051133   50
WTGFKJZ.AV11.SUBTASK         051133   51
WTGFKJZ.AV15.SUBTASK         051133   52
WTGFKJZ.AV16.SUBTASK         051133   53
WTGFKJZ.AV17.SUBTASK         051133   54
WTGFKJZ.AV93.SUBTASK         051133   55
WTGFKJZ.CT01.SUBTASK         051133   56
WTGFKJZ.DR01.SUBTASK         051133   57
WTGFKJZ.DR03.SUBTASK         051133   58
WTGFKJZ.DR10.SUBTASK         051133   59
WTGFKJZ.EU03.SUBTASK         051133   60
WTGFKJZ.EU07.SUBTASK         051133   61
WTGFKJZ.EU08.SUBTASK         051133   62
WTGFKJZ.EU09.SUBTASK         051133   63
WTGFKJZ.EU10.SUBTASK         051133   64
WTGFKJZ.EU11.SUBTASK         051133   65
WTGFKJZ.EU12.SUBTASK         051133   66
WTGFKJZ.EU13.SUBTASK         051133   67
WTGFKJZ.EU16.SUBTASK         051133   68
WTGFKJZ.EU17.SUBTASK         051133   69
WTGFKJZ.EU18.SUBTASK         051133   70
WTGFKJZ.EU23.SUBTASK         051133   71
WTGFKJZ.EU24.SUBTASK         051133   72
WTGFKJZ.EU25.SUBTASK         051133   73
WTGFKJZ.EX01.SUBTASK         051133   74
WTGFKJZ.EX02.SUBTASK         051133   75
WTGFKJZ.FO01.SUBTASK         051133   76
WTGFKJZ.FO02.SUBTASK         051133   77
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CONTENTS: COMPLETE PC (NEW) *
INDICATOR STATEMENTS BSEP I *
TOTAL TAPE MARKS: 199        *
TOTAL RECORDS: 601,722       *
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     DATA SET           TP NUMBER TP MK
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WTGFKJZ.01C.PCC.NEW1S        048628  3
WTGFKJZ.01D.PCC.NEW1S        048628  4
WTGFKJZ.01E.PCC.NEW1S        048628  5
WTGFKJZ.01F.PCC.NEW1S        048628  6
WTGFKJZ.01G.PCC.NEW1S        048628  7
WTGFKJZ.01H.PCC.NEW1S        048628  8
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WTGFKJZ.02C.PCC.NEW1S        048628  12
WTGFKJZ.02D.PCC.NEW1S        048628  13
WTGFKJZ.02E.PCC.NEW1S        048628  14
WTGFKJZ.02F.PCC.NEW1S        048628  15
WTGFKJZ.02G.PCC.NEW1S        048628  16
WTGFKJZ.03A.PCC.NEW1S        048628  17
WTGFKJZ.03B.PCC.NEW1S        048628  18
WTGFKJZ.03C.PCC.NEW1S        048628  19
WTGFKJZ.04A.PCC.NEW1S        048628  20
WTGFKJZ.04B.PCC.NEW1S        048628  21
WTGFKJZ.04C.PCC.NEW1S        048628  22
WTGFKJZ.04D.PCC.NEW1S        048628  23
WTGFKJZ.04E.PCC.NEW1S        048628  24
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WTGFXJZ.05A.PCC.NEW1S          048628    26
WTGFKJZ.05B.PCC.NEW1S          048628    27
WTGFKJZ.05C.PCC.NEW1S          048628    28
WTGFKJZ.05D.PCC.NEW1S          048628    29
WTGFKJZ.05E.PCC.NEW1S          048628    30
WTGFKJZ.05F.PCC.NEW1S          048628    31
WTGFKJZ.05G.PCC.NEW1S          048628    32
WTGFKJZ.05H.PCC.NEW1S          048628    33
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WTGFKJZ.06A.PCC.NEW1S          048628    35
WTGFKJZ.06B.PCC.NEW1S          048628    36
WTGFKJZ.06C.PCC.NEW1S          048628    37
WTGFKJZ.06D.PCC.NEW1S          048628    38
WTGFKJZ.07A.PCC.NEW1S          048628    39
WTGFKJZ.07B.PCC.NEW1S          048628    40
WTGFKJZ.07C.PCC.NEW1S          048628    41
WTGFKJZ.07D.PCC.NEW1S          048628    42
WTGFKJZ.08A.PCC.NEW1S          048628    43
WTGFKJZ.08B.PCC.NEW1S          048628    44
WTGFKJZ.08C.PCC.NEW1S          048628    45
WTGFKJZ.08D.PCC.NEW1S          048628    46
WTGFKJZ.08E.PCC.NEW1S          048628    47
WTGFKJZ.09A.PCC.NEW1S          048628    48
WTGFKJZ.09B.PCC.NEW1S          048628    49
WTGFKJZ.09C.PCC.NEW1S          048628    50
WTGFKJZ.09D.PCC.NEW1S          048628    51
WTGFKJZ.09E.PCC.NEW1S          048628    52
WTGFKJZ.10A.PCC.NEW1S          048628    53
WTGFKJZ.11A.PCC.NEW1S          048628    54
WTGFKJZ.11B.PCC.NEW1S          048628    55
WTGFKJZ.12A.PCC.NEW1S          048628    56
WTGFKJZ.12B.PCC.NEW1S          048628    57
WTGFKJZ.12C.PCC.NEW1S          048628    58
WTGFKJZ.12D.PCC.NEW1S          048628    59
WTGFKJZ.12E.PCC.NEW1S          048628    60
WTGFKJZ.12F.PCC.NEW1S          048628    61
WTGFKJZ.12G.PCC.NEW1S          048628    62
WTGFKJZ.12H.PCC.NEW1S          048628    63
WTGFKJZ.13A.PCC.NEW1S          048628    64
WTGFKJZ.13B.PCC.NEW1S          048628    65
WTGFKJZ.13C.PCC.NEW1S          048628    66
WTGFKJZ.13D.PCC.NEW1S          048628    67
WTGFKJZ.13E.PCC.NEW1S          048628    68
WTGFKJZ.14A.PCC.NEW1S          048628    69
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WTGFKJZ.14E.PCC.NEW1S          048628    73
WTGFKJZ.14F.PCC.NEW1S          048628    74
WTGFKJZ.14G.PCC.NEW1S          048628    75
WTGFKJZ.15A.PCC.NEW1S          048628    76
WTGFKJZ.15B.PCC.NEW1S          048628    77
WTGFKJZ.15C.PCC.NEW1S          048628    78
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WTGFKJZ.15H.PCC.NEW1S          048628    83
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WTGFKJZ.15J.PCC.NEW1S          048628    85
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WTGFKJZ.16B.PCC.NEW1S          048628    87
WTGFKJZ.16C.PCC.NEW1S          048628    88
WTGFKJZ.16D.PCC.NEW1S          048628    89
WTGFKJZ.16E.PCC.NEW1S          048628    90
WTGFKJZ.16F.PCC.NEW1S          048628    91
WTGFKJZ.16G.PCC.NEW1S          048628    92
WTGFKJZ.16H.PCC.NEW1S          048628    93
WTGFKJZ.17A.PCC.NEW1S          048628    94
WTGFKJZ.17B.PCC.NEW1S          048628    95
WTGFKJZ.17C.PCC.NEW1S          048628    96
WTGFKJZ.18A.PCC.NEW1S          048628    97
WTGFKJZ.18B.PCC.NEW1S          048628    98
WTGFKJZ.18C.PCC.NEW1S          048628    99
WTGFKJZ.19A.PCC.NEW1S          048628    100
WTGFKJZ.19B.PCC.NEW1S          048628    101
WTGFKJZ.19C.PCC.NEW1S          048628    102
WTGFKJZ.19D.PCC.NEW1S          048628    103
WTGFKJZ.25A.PCC.NEW1S          048628    104
WTGFKJZ.25B.PCC.NEW1S          048628    105
WTGFKJZ.25C.PCC.NEW1S          048628    106
WTGFKJZ.25D.PCC.NEW1S          048628    107
WTGFKJZ.25E.PCC.NEW1S          048628    108
WTGFKJZ.25F.PCC.NEW1S          048628    109
WTGFKJZ.26A.PCC.NEW1S          048628    110
WTGFKJZ.26B.PCC.NEW1S          048628    111
WTGFKJZ.26C.PCC.NEW1S          048628    112
WTGFKJZ.26D.PCC.NEW1S          048628    113
WTGFKJZ.26E.PCC.NEW1S          048628    114
WTGFKJZ.27A.PCC.NEW1S          048628    115
WTGFKJZ.27B.PCC.NEW1S          048628    116
WTGFKJZ.27C.PCC.NEW1S          048628    117
WTGFKJZ.27D.PCC.NEW1S          048628    118
WTGFKJZ.27E.PCC.NEW1S          048628    119
WTGFKJZ.27F.PCC.NEW1S          048628    120
WTGFKJZ.27G.PCC.NEW1S          048628    121
WTGFKJZ.28A.PCC.NEW1S          048628    122
WTGFKJZ.28B.PCC.NEW1S          048628    123
WTGFKJZ.28C.PCC.NEW1S          048628    124
WTGFKJZ.28D.PCC.NEW1S          048628    125
WTGFKJZ.29A.PCC.NEW1S          048628    126
WTGFKJZ.29B.PCC.NEW1S          048628    127
WTGFKJZ.29C.PCC.NEW1S          048628    128
WTGFKJZ.29D.PCC.NEW1S          048628    129
WTGFKJZ.29E.PCC.NEW1S          048628    130
WTGFKJZ.29F.PCC.NEW1S          048628    131
WTGFKJZ.30A.PCC.NEW1S          048628    132
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WTGFKJZ.30C.PCC.NEW1S        048628   134
WTGFKJZ.31A.PCC.NEW1S        048628   135
WTGFKJZ.31B.PCC.NEW1S        048628   136
WTGFKJZ.31C.PCC.NEW1S        048628   137
WTGFKJZ.31D.PCC.NEW1S        048628   138
WTGFKJZ.31E.PCC.NEW1S        048628   139
WTGFKJZ.32A.PCC.NEW1S        048628   140
WTGFKJZ.32B.PCC.NEW1S        048628   141
WTGFKJZ.32C.PCC.NEW1S        048628   142
WTGFKJZ.32D.PCC.NEW1S        048628   143
WTGFKJZ.32E.PCC.NEW1S        048628   144
WTGFKJZ.33A.PCC.NEW1S        048628   145
WTGFKJZ.33B.PCC.NEW1S        048628   146
WTGFKJZ.33C.PCC.NEW1S        048628   147
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WTGFKJZ.34D.PCC.NEW1S        048628   152
WTGFKJZ.35A.PCC.NEW1S        048628   153
WTGFKJZ.35B.PCC.NEW1S        048628   154
WTGFKJZ.35C.PCC.NEW1S        048628   155
WTGFKJZ.35D.PCC.NEW1S        048628   156
WTGFKJZ.35E.PCC.NEW1S        048628   157
WTGFKJZ.35F.PCC.NEW1S        048628   158
WTGFKJZ.35H.PCC.NEW1S        048628   159
WTGFKJZ.35I.PCC.NEW1S        048628   160
WTGFKJZ.36A.PCC.NEW1S        048628   161
WTGFKJZ.36B.PCC.NEW1S        048628   162
WTGFKJZ.36C.PCC.NEW1S        048628   163
WTGFKJZ.36D.PCC.NEW1S        048628   164
WTGFKJZ.36E.PCC.NEW1S        048628   165
WTGFKJZ.36F.PCC.NEW1S        048628   166
WTGFKJZ.36G.PCC.NEW1S        048628   167
WTGFKJZ.36H.PCC.NEW1S        048628   168
WTGFKJZ.37A.PCC.NEW1S        048628   169
WTGFKJZ.37B.PCC.NEW1S        048628   170
WTGFKJZ.37C.PCC.NEW1S        048628   171
WTGFKJZ.37D.PCC.NEW1S        048628   172
WTGFKJZ.37E.PCC.NEW1S        048628   173
WTGFKJZ.37F.PCC.NEW1S        048628   174
WTGFKJZ.37G.PCC.NEW1S        048628   175
WTGFKJZ.37H.PCC.NEW1S        048628   176
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WTGFKJZ.38B.PCC.NEW1S        048628   178
WTGFKJZ.38C.PCC.NEW1S        048628   179
WTGFKJZ.38D.PCC.NEW1S        048628   180
WTGFKJZ.38E.PCC.NEW1S        048628   181
WTGFKJZ.38F.PCC.NEW1S        048628   182
WTGFKJZ.38G.PCC.NEW1S        048628   183
WTGFKJZ.38H.PCC.NEW1S        048628   184
WTGFKJZ.38I.PCC.NEW1S        048628   185
WTGFKJZ.38J.PCC.NEW1S        048628   186
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WTGFKJZ.39A.PCC.NEW1S          048628   187
WTGFKJZ.39B.PCC.NEW1S          048628   188
WTGFKJZ.39C.PCC.NEW1S          048628   189
WTGFKJZ.40A.PCC.NEW1S          048628   190
WTGFKJZ.40B.PCC.NEW1S          048628   191
WTGFKJZ.40C.PCC.NEW1S          048628   192
WTGFKJZ.41A.PCC.NEW1S          048628   193
WTGFKJZ.41B.PCC.NEW1S          048628   194
WTGFKJZ.41C.PCC.NEW1S          048628   195
WTGFKJZ.41D.PCC.NEW1S          048628   196
WTGFKJZ.41E.PCC.NEW1S          048628   197
WTGFKJZ.41F.PCC.NEW1S          048628   198
WTGFKJZ.41G.PCC.NEW1S          048628   199
WTGFKJZ.41H.PCC.NEW1S          048628   200
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TAPE VOLUMES V07186 - V07188*
LAST UPDATE: 05/17/83       *
RECORDSIZE 61 BLOCKSIZE 610 *
CONTENTS: COMPLETE PC (NEW) *
INDICATOR STATEMENTS BSEP II*
TOTAL TAPE MARKS: 195       *
TOTAL RECORDS: 311,908      *
*****************************
    DATA SET              TP NUMBER TP MK
WTGFKJZ.01A.PCC.NEW2S          051320   1
WTGFKJZ.01B.PCC.NEW2S          051320   2
WTGFKJZ.01C.PCC.NEW2S          051320   3
WTGFKJZ.01D.PCC.NEW2S          051320   4
WTGFKJZ.01E.PCC.NEW2S          051320   5
WTGFKJZ.01F.PCC.NEW2S          051320   6
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WTGFKJZ.01I.PCC.NEW2S          051320   9
WTGFKJZ.02A.PCC.NEW2S          051320   10
WTGFKJZ.02B.PCC.NEW2S          051320   11
WTGFKJZ.02C.PCC.NEW2S          051320   12
WTGFKJZ.02D.PCC.NEW2S          051320   13
WTGFKJZ.02E.PCC.NEW2S          051320   14
WTGFKJZ.02F.PCC.NEW2S          051320   15
WTGFKJZ.02G.PCC.NEW2S          051320   16
WTGFKJZ.03A.PCC.NEW2S          051320   17
WTGFKJZ.03B.PCC.NEW2S          051320   18
WTGFKJZ.03C.PCC.NEW2S          051320   19
WTGFKJZ.04A.PCC.NEW2S          051320   20
WTGFKJZ.04B.PCC.NEW2S          051320   21
WTGFKJZ.04C.PCC.NEW2S          051320   22
WTGFKJZ.04D.PCC.NEW2S          051320   23
WTGFKJZ.04E.PCC.NEW2S          051320   24
WTGFKJZ.04F.PCC.NEW2S          051320   25
WTGFKJZ.05A.PCC.NEW2S          051320   26
WTGFKJZ.05B.PCC.NEW2S          051320   27
WTGFKJZ.05C.PCC.NEW2S          051320   28
WTGFKJZ.05D.PCC.NEW2S          051320   29
WTGFKJZ.05E.PCC.NEW2S          051320   30
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WTGFKJZ.05I.PCC.NEW2S          051320    34
WTGFKJZ.06A.PCC.NEW2S          051320    35
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WTGFKJZ.06C.PCC.NEW2S          051320    37
WTGFKJZ.06D.PCC.NEW2S          051320    38
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WTGFKJZ.07D.PCC.NEW2S          051320    42
WTGFKJZ.08A.PCC.NEW2S          051320    43
WTGFKJZ.08B.PCC.NEW2S          051320    44
WTGFKJZ.08C.PCC.NEW2S          051320    45
WTGFKJZ.08D.PCC.NEW2S          051320    46
WTGFKJZ.08E.PCC.NEW2S          051320    47
WTGFKJZ.09A.PCC.NEW2S          051320    48
WTGFKJZ.09B.PCC.NEW2S          051320    49
WTGFKJZ.09C.PCC.NEW2S          051320    50
WTGFKJZ.09D.PCC.NEW2S          051320    51
WTGFKJZ.10A.PCC.NEW2S          051320    52
WTGFKJZ.11A.PCC.NEW2S          051320    53
WTGFKJZ.11B.PCC.NEW2S          051320    54
WTGFKJZ.12A.PCC.NEW2S          051320    55
WTGFKJZ.12B.PCC.NEW2S          051320    56
WTGFKJZ.12C.PCC.NEW2S          051320    57
WTGFKJZ.12D.PCC.NEW2S          051320    58
WTGFKJZ.12E.PCC.NEW2S          051320    59
WTGFKJZ.12F.PCC.NEW2S          051320    60
WTGFKJZ.12G.PCC.NEW2S          051320    61
WTGFKJZ.12H.PCC.NEW2S          051320    62
WTGFKJZ.13A.PCC.NEW2S          051320    63
WTGFKJZ.13B.PCC.NEW2S          051320    64
WTGFKJZ.13C.PCC.NEW2S          051320    65
WTGFKJZ.13D.PCC.NEW2S          051320    66
WTGFKJZ.13E.PCC.NEW2S          051320    67
WTGFKJZ.14A.PCC.NEW2S          051320    68
WTGFKJZ.14B.PCC.NEW2S          051320    69
WTGFKJZ.14C.PCC.NEW2S          051320    70
WTGFKJZ.14D.PCC.NEW2S          051320    71
WTGFKJZ.14E.PCC.NEW2S          051320    72
WTGFKJZ.14F.PCC.NEW2S          051320    73
WTGFKJZ.14G.PCC.NEW2S          051320    74
WTGFKJZ.15A.PCC.NEW2S          051320    75
WTGFKJZ.15B.PCC.NEW2S          051320    76
WTGFKJZ.15C.PCC.NEW2S          051320    77
WTGFKJZ.15D.PCC.NEW2S          051320    78
WTGFKJZ.15E.PCC.NEW2S          051320    79
WTGFK.Z.15F.PCC.NEW2S          051320    80
WTGFKJZ.15G.PCC.NEW2S          051320    81
WTGFKJZ.15H.PCC.NEW2S          051320    82
WTGFKJZ.15I.PCC.NEW2S          051320    83
WTGFKJZ.15J.PCC.NEW2S          051320    84
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WTGFKJZ.16B.PCC.NEW2S          051320     85
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WTGFKJZ.16E.PCC.NEW2S          051320     88
WTGFKJZ.16F.PCC.NEW2S          051320     89
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WTGFKJZ.16H.PCC.NEW2S          051320     91
WTGFKJZ.17A.PCC.NEW2S          051320     92
WTGFKJZ.17B.PCC.NEW2S          051320     93
WTGFKJZ.17C.PCC.NEW2S          051320     94
WTGFKJZ.18A.PCC.NEW2S          051320     95
WTGFKJZ.19A.PCC.NEW2S          051320     96
WTGFKJZ.19B.PCC.NEW2S          051320     97
WTGFKJZ.19C.PCC.NEW2S          051320     98
WTGFKJZ.19D.PCC.NEW2S          051320     99
WTGFKJZ.25A.PCC.NEW2S          051320     100
WTGFKJZ.25B.PCC.NEW2S          051320     101
WTGFKJZ.25C.PCC.NEW2S          051320     102
WTGFKJZ.25D.PCC.NEW2S          051320     103
WTGFKJZ.25E.PCC.NEW2S          051320     104
WTGFKJZ.25F.PCC.NEW2S          051320     105
WTGFKJZ.26A.PCC.NEW2S          051320     106
WTGFKJZ.26B.PCC.NEW2S          051320     107
WTGFKJZ.26C.PCC.NEW2S          051320     108
WTGFKJZ.26D.PCC.NEW2S          051320     109
WTGFKJZ.26E.PCC.NEW2S          051320     110
WTGFKJZ.27A.PCC.NEW2S          051320     111
WTGFKJZ.27B.PCC.NEW2S          051320     112
WTGFKJZ.27C.PCC.NEW2S          051320     113
WTGFKJZ.27D.PCC.NEW2S          051320     114
WTGFKJZ.27E.PCC.NEW2S          051320     115
WTGFKJZ.27F.PCC.NEW2S          051320     116
WTGFKJZ.27G.PCC.NEW2S          051320     117
WTGFKJZ.28A.PCC.NEW2S          051320     118
WTGFKJZ.28B.PCC.NEW2S          051320     119
WTGFKJZ.28C.PCC.NEW2S          051320     120
WTGFKJZ.28D.PCC.NEW2S          051320     121
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WTGFKJZ.29C.PCC.NEW2S          051320     124
WTGFKJZ.29D.PCC.NEW2S          051320     125
WTGFKJZ.29E.PCC.NEW2S          051320     126
WTGFKJZ.29F.PCC.NEW2S          051320     127
WTGFKJZ.30A.PCC.NEW2S          051320     128
WTGFKJZ.30B.PCC.NEW2S          051320     129
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WTGFKJZ.31B.PCC.NEW2S          051320     132
WTGFKJZ.31C.PCC.NEW2S          051320     133
WTGFKJZ.31D.PCC.NEW2S          051320     134
WTGFKJZ.31E.PCC.NEW2S          051320     135
WTGFKJZ.32A.PCC.NEW2S          051320     136
WTGFKJZ.32B.PCC.NEW2S          051320     137
WTGFKJZ.32C.PCC.NEW2S          051320     138
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WTGFKJZ.32D.PCC.NEW2S          051320   139
WTGFKJZ.32E.PCC.NEW2S          051320   140
WTGFKJZ.33A.PCC.NEW2S          051320   141
WTGFKJZ.33B.PCC.NEW2S          051320   142
WTGFKJZ.33C.PCC.NEW2S          051320   143
WTGFKJZ.33D.PCC.NEW2S          051320   144
WTGFKJZ.34A.PCC.NEW2S          051320   145
WTGFKJZ.34B.PCC.NEW2S          051320   146
WTGFKJZ.34C.PCC.NEW2S          051320   147
WTGFKJZ.34D.PCC.NEW2S          051320   148
WTGFKJZ.35A.PCC.NEW2S          051320   149
WTGFKJZ.35B.PCC.NEW2S          051320   150
WTGFKJZ.35C.PCC.NEW2S          051320   151
WTGFKJZ.35D.PCC.NEW2S          051320   152
WTGFKJZ.35E.PCC.NEW2S          051320   153
WTGFKJZ.35F.PCC.NEW2S          051320   154
WTGFKJZ.35H.PCC.NEW2S          051320   155
WTGFKJZ.35I.PCC.NEW2S          051320   156
WTGFKJZ.36A.PCC.NEW2S          051320   157
WTGFKJZ.36B.PCC.NEW2S          051320   158
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WTGFKJZ.36D.PCC.NEW2S          051320   160
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WTGFKJZ.36H.PCC.NEW2S          051320   163
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WTGFKJZ.38A.PCC.NEW2S          051320   172
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WTGFKJZ.38C.PCC.NEW2S          051320   174
WTGFKJZ.38D.PCC.NEW2S          051320   175
WTGFKJZ.38E.PCC.NEW2S          051320   176
WTGFKJZ.38F.PCC.NEW2S          051320   177
WTGFKJZ.38G.PCC.NEW2S          051320   178
WTGFKJZ.38H.PCC.NEW2S          051320   179
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WTGFKJZ.39A.PCC.NEW2S          051320   182
WTGFKJZ.39B.PCC.NEW2S          051320   183
WTGFKJZ.39C.PCC.NEW2S          051320   184
WTGFKJZ.40A.PCC.NEW2S          051320   185
WTGFKJZ.40B.PCC.NEW2S          051320   186
WTGFKJZ.40C.PCC.NEW2S          051320   187
WTGFKJZ.41A.PCC.NEW2S          051320   188
WTGFKJZ.41B.PCC.NEW2S          051320   189
WTGFKJZ.41C.PCC.NEW2S          051320   190
WTGFKJZ.41D.PCC.NEW2S          051320   191
WTGFKJZ.41E.PCC.NEW2S          051320   192
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WTGFKJZ.41G.PCC.NEW2S        051320   194
WTGFKJZ.41H.PCC.NEW2S        051320   195
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CONTENTS: FORTRAN PROGRAMS   *
TAPE MARKS: 1 - 27           *
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CONTENTS: JCL                *
RECORDSIZE 80 BLOCKSIZE 800  *
TAPE MARKS: 28 - 49          *
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CONTENTS: JCL DOCUMENTATION  *
LRECL 132   BLOCKSIZE 1320   *
TAPE MARK: 50                *
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CONTENTS: TPA-2 LISTINGS     *
RECORDSIZE 13 BLOCKSIZE 130  *
TAPE MARKS: 51 - 145         *
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CONTENTS: PC COUNT FILES     *
RECORDSIZE 20 BLOCKSIZE 200  *
TAPE MARKS: 146 - 240        *
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CONTENTS: REPLACEMENT JCL    *
RECORDSIZE 80 BLOCKSIZE 800  *
TAPE MARKS: 241 - 245        *
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CONTENTS: TAPE INDEXES       *
RECORDSIZE 30 BLOCKSIZE 300  *
TAPE MARKS: 246 - 255        *
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CONTENTS: TASKS TO FILES     *
RECORDSIZE 20 BLOCKSIZE 200  *
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WTGFKJZ.FORTRAN.DISCOMM         053712  3
WTGFKJZ.FORTRAN.DISCPG1         053712  4
WTGFKJZ.FORTRAN.ERRATA          053712  5
WTGFKJZ.FORTRAN.KNOWEX          053712  6
WTGFKJZ.FORTRAN.KNOWPRT         053712  7
WTGFKJZ.FORTRAN.PCALLN          053712  8
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WTGFKJZ.FORTRAN.PCALLO              053712   9
WTGFKJZ.FORTRAN.PCINDN              053712  10
WTGFKJZ.FORTRAN.PCINDO              053712  11
WTGFKJZ.FORTRAN.PG2NEW              053712  12
WTGFKJZ.FORTRAN.PG2OLD              053712  13
WTGFKJZ.FORTRAN.PG3NEW              053712  14
WTGFKJZ.FORTRAN.PG3OLD              053712  15
WTGFKJZ.FORTRAN.PRTCOMM             053712  16
WTGFKJZ.FORTRAN.PRTDISC             053712  17
WTGFKJZ.FORTRAN.PRTKA               053712  18
WTGFKJZ.FORTRAN.PRTTPAX             053712  19
WTGFKJZ.FORTRAN.SCAN                053712  20
WTGFKJZ.FORTRAN.SCANX               053712  21
WTGFKJZ.FORTRAN.SCANX1              053712  22
WTGFKJZ.FORTRAN.SUBTASK             053712  23
WTGFKJZ.FORTRAN.TASKPRT             053712  24
WTGFKJZ.FORTRAN.TECHPRT             053712  25
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           DATA FILES
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WTGFKJZ.MOS DATA          053712  27
WTGFKJZ.TAX DICT          053712  28
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WTGFKJZ.DISCPG1           053712  30
WTGFKJZ.PRTCOMM           053712  31
WTGFKJZ.PRTDISC           053712  32
WTGFKJZ.PRTERR            053712  33
WTGFKJZ.PRTKA             053712  34
WTGFKJZ.PRTKN             053712  35
WTGFKJZ.PRTPCIN           053712  36
WTGFKJZ.PRTPCIO           053712  37
WTGFKJZ.PRTPCN            053712  38
WTGFKJZ.PRTPCO            053712  39
WTGFKJZ.PRTPG1            053712  40
*** REPLACED AT TM 242
WTGFKJZ.PRTSUBLS          053712  41
*** REPLACED AT TM 243
WTGFKJZ.PRTSUBT           053712  42
WTGFKJZ.PRTTP             053712  43
WTGFKJZ.PRTTPAX           053712  44
WTGFKJZ.PRT2NEW           053712  45
WTGFKJZ.PRT2OLD           053712  46
WTGFKJZ.PRT3NEW           053712  47
*** REPLACED AT TM 244
WTGFKJZ.PRT3OLD           053712  48
WTGFKJZ.TASKCOMP          053712  49
WTGFKJZ.TASK   MOS        053712  50
*** REPLACED AT TM 245
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     DOCUMENTATION OF JCL
WTGFKJZ.JCL DOC           053712  51
*** REPLACED AT TM 246
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WTGFKJZ.11H.PG2.TSKNOS        053712   58
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WTGFKJZ.12B.PG2.TSKNOS        053712   60
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WTGFKJZ.13F.PG2.TSKNOS        053712   63
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WTGFKJZ.15E.PG2.TSKNOS        053712   65
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WTGFKJZ.16E.PG2.TSKNOS        053712   67
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WTGFKJZ.16P.PG2.TSKNOS        053712   69
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WTGFKJZ.17C.PG2.TSKNOS        053712   71
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WTGFKJZ.19E.PG2.TSKNOS        053712   74
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WTGFKJZ.24H.PG2.TSKNOS        053712   76
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WTGFKJZ.26Q.PG2.TSKNOS        053712   78
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WTGFKJZ.31N.PG2.TSKNOS        053712   82
WTGFKJZ.31V.PG2.TSKNOS        053712   83
WTGFKJZ.32D.PG2.TSKNOS        053712   84
WTGFKJZ.32H.PG2.TSKNOS        053712   85
WTGFKJZ.33S.PG2.TSKNOS        053712   86
WTGFKJZ.35K.PG2.TSKNOS        053712   87
WTGFKJZ.36C.PG2.TSKNOS        053712   88
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WTGFKJZ.57E.PG2.TSKNOS        053712   101
WTGFKJZ.57H.PG2.TSKNOS        053712   102
WTGFKJZ.61B.PG2.TSKNOS        053712   103
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WTGFKJZ.76V.PG2.TSKNOS          053712    136
WTGFKJZ.76W.PG2.TSKNOS          053712    137
WTGFKJZ.76X.PG2.TSKNOS          053712    138
WTGFKJZ.76Y.PG2.TSKNOS          053712    139
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WTGFKJZ.91B.PG2.TSKNOS          053712    141
WTGFKJZ.93J.PG2.TSKNOS          053712    142
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WTGFKJZ.95B.PG2.TSKNOS          053712    144
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WTGFKJZ.96B.PG2.TSKNOS          053712    146
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WTGFKJZ.05G.PCCOUNTS            053712    150
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WTGFKJZ.63H.PCCOUNTS            053712   203
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WTGFKJZ.76X.PCCOUNTS          053712  233
WTGFKJZ.76Y.PCCOUNTS          053712  234
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WTGFKJZ.91B.PCCOUNTS          053712  236
WTGFKJZ.93J.PCCOUNTS          053712  237
WTGFKJZ.94B.PCCOUNTS          053712  238
WTGFKJZ.95B.PCCOUNTS          053712  239
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WTGFKJZ.PRT3NEW             053712  244
WTGFKJZ.TASK   MOS           053712  245
WTGFKJZ.JCL DOC             053712  246
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     TAPE INDEXES
WTGFKJZ.TAPE1PG2             053712  247
WTGFKJZ.TAPE2PG2             053712  248
WTGFKJZ.TAPE3PG1             053712  249
WTGFKJZ.TAPE4PG3             053712  250
WTGFKJZ.TAPE5PCI             053712  251
WTGFKJZ.TAPE6PCI             053712  252
WTGFKJZ.TAPE7SUM             053712  253
WTGFKJZ.TAPE8CPI             053712  254
WTGFKJZ.TAPE9CPI             053712  255
WTGFKJZ.TAP10SYS             053712  256
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WTGFKJZ.TO13B          053712   264
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WTGFKJZ.TO13F          053712   266
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WTGFKJZ.TO71Q          053712   309
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